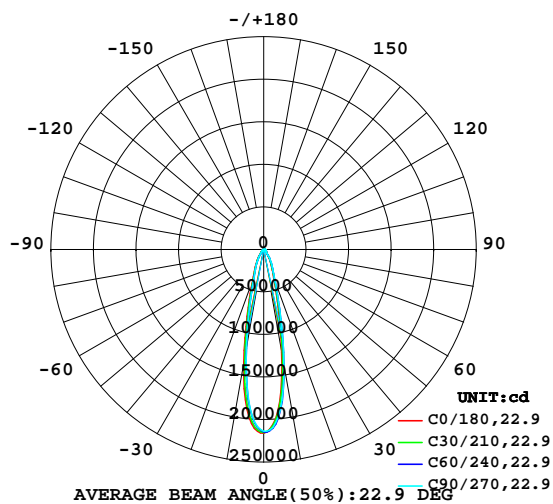


LUMINAIRE PHOTOMETRIC TEST REPORT

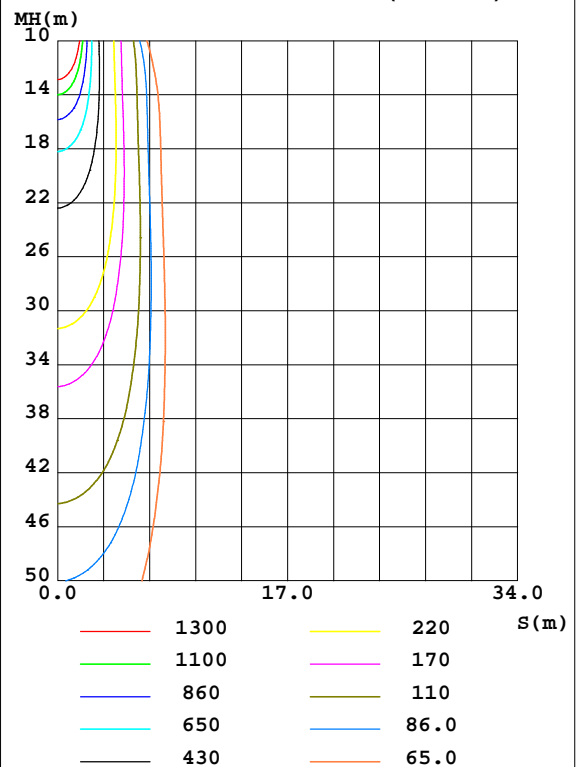
Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.56 lm/W			
MODEL	NCD-400C-D20	Imax(cd)	215800	S/MH(C0/180)	0.41
NOMINAL POWER(W)	400	LOR(%)	100.1	S/MH(C90/270)	0.37
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	59537	η UP,DN(C0-180)	0.9,51.4
NOMINAL FLUX(lm)	59503	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.8,47.0
LAMPS INSIDE	1	η up(%)	1.7	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	98.3	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: HSO
 Test Date: 24 October 2006

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 8.100m [K=1.0000]
 Remarks: NCD-400C-D20

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1231	1342	1372	1325	1359	1233	1177	1197	0- 10	16240	16240	27.3,27.3
20	350.9	381.2	394.0	377.3	378.6	340.9	328.5	336.7	10- 20	18945	35185	59.1,59.1
30	154.7	171.9	173.5	166.1	161.8	143.0	140.6	146.7	20- 30	10905	46089	77.4,77.5
40	52.70	58.92	60.66	58.29	53.68	45.71	46.26	47.27	30- 40	6044	52133	87.6,87.6
50	24.58	25.82	25.74	25.74	24.50	22.71	22.90	23.16	40- 50	2652	54786	92,92.1
60	16.31	16.99	17.49	16.76	16.73	15.76	16.16	15.85	50- 60	1807	56593	95.1,95.1
70	8.322	9.002	9.508	8.952	8.929	8.402	8.645	8.337	60- 70	1247	57840	97.2,97.2
80	2.115	2.643	2.878	2.660	2.430	2.273	2.355	2.223	70- 80	565.0	58405	98.1,98.2
90	0.3977	0.3819	0.3678	0.3741	0.1627	0.1709	0.1638	0.1641	80- 90	98.60	58504	98.3,98.3
100	0.6182	0.5886	0.5766	0.5809	0.2369	0.2491	0.2533	0.2433	90-100	36.92	58541	98.3,98.4
110	0.8754	0.8365	0.8249	0.8350	0.4239	0.4525	0.4602	0.4406	100-110	55.08	58596	98.4,98.5
120	1.326	1.252	1.233	1.255	0.8228	0.8834	0.8975	0.8627	110-120	81.63	58678	98.6,98.6
130	2.264	2.138	2.114	2.145	1.732	1.844	1.856	1.806	120-130	131.9	58810	98.8,98.8
140	3.258	3.160	3.129	3.159	2.931	3.013	3.020	2.969	130-140	196.4	59006	99.1,99.2
150	3.780	3.724	3.700	3.712	3.651	3.674	3.664	3.632	140-150	214.5	59220	99.5,99.5
160	3.914	3.890	3.875	3.879	3.882	3.866	3.842	3.820	150-160	176.1	59397	99.8,99.8
170	3.607	3.614	3.618	3.612	3.631	3.581	3.556	3.533	160-170	107.2	59504	99.9,100
180	3.290	3.273	3.292	3.251	3.297	3.270	3.295	3.249	170-180	32.85	59537	100,100
DEG	LUMINOUS INTENSITY: #100cd									UNIT: lm		

Conical surface Flux(90deg): 53658 lm

%lum = 90.1%

%lamp = 90.2%

Conical surface Flux(120deg): 56593 lm

%lum = 95.1%

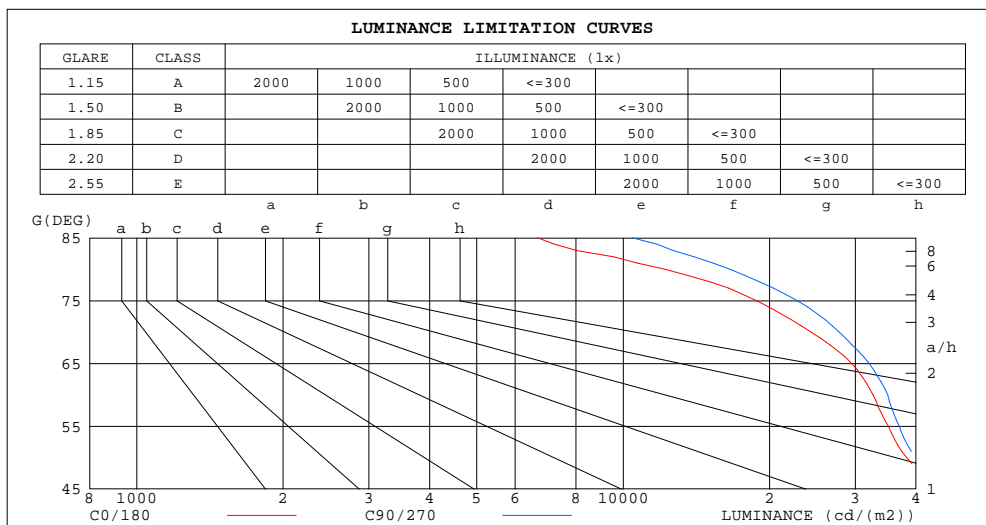
%lamp = 95.1%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HSO
Test Date: 24 October 2006

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: NCD-400C-D20

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6671	10457
80	12179	16574
75	18788	22778
70	24331	27798
65	29493	32023
60	32627	34982
55	35075	36919
50	38239	40051
45	46689	50125

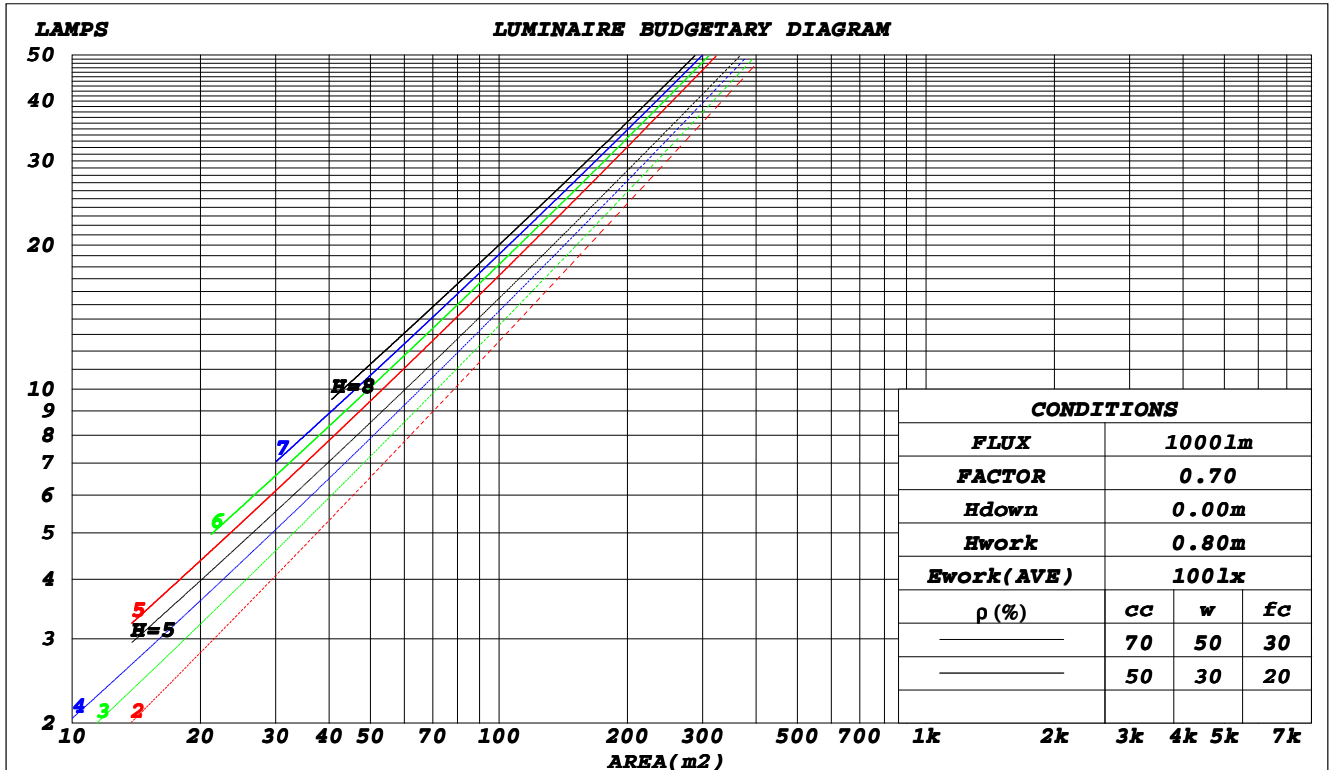
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.96	.95	.94	.93
2.0	1.04	.90	.97	1.02	.98	.96	.98	.96	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.98	.93	.89	.96	.92	.89	.93	.90	.87	.91	.88	.85	.88	.86	.84	.82
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.83	.81	.85	.82	.79	.78
5.0	.88	.82	.79	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.78	.76	.74
6.0	.83	.78	.74	.83	.78	.74	.81	.77	.73	.80	.76	.73	.78	.75	.72	.71
7.0	.80	.75	.71	.79	.74	.71	.78	.73	.70	.76	.73	.70	.75	.72	.69	.68
8.0	.77	.71	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.73	.69	.66	.65
9.0	.74	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.70	.67	.64	.63
10.0	.71	.66	.63	.70	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.61



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HSO
 Test Date:24 October 2006

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:8.100m [K=1.0000]
 Remarks: NCD-400C-D20

WEC AND CCEC

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.171	.097	.031	.164	.093	.030	.150	.086	.028	.138	.079	.025	.126	.073	.024		
2.0	.161	.088	.027	.155	.085	.026	.143	.080	.025	.133	.075	.023	.123	.070	.022		
3.0	.151	.080	.024	.146	.078	.023	.136	.074	.022	.127	.070	.021	.118	.066	.020		
4.0	.141	.074	.022	.137	.072	.021	.129	.068	.020	.121	.065	.020	.113	.062	.019		
5.0	.133	.068	.020	.129	.066	.019	.122	.063	.019	.115	.061	.018	.109	.058	.017		
6.0	.125	.063	.018	.122	.062	.018	.116	.059	.017	.110	.057	.017	.104	.055	.016		
7.0	.119	.059	.017	.116	.058	.016	.110	.056	.016	.105	.054	.016	.100	.052	.015		
8.0	.113	.055	.015	.110	.054	.015	.105	.052	.015	.100	.051	.015	.096	.049	.014		
9.0	.107	.052	.014	.105	.051	.014	.100	.050	.014	.096	.048	.014	.092	.047	.013		
10.0	.102	.049	.014	.100	.048	.013	.096	.047	.013	.092	.046	.013	.088	.044	.013		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.184	.171	.159	.158	.147	.137	.108	.101	.095	.062	.058	.055	.020	.019	.018	
2.0	.168	.146	.127	.144	.126	.110	.099	.087	.077	.057	.051	.045	.018	.016	.015	
3.0	.155	.127	.105	.133	.110	.091	.091	.076	.064	.053	.044	.038	.017	.014	.012	
4.0	.144	.112	.088	.123	.097	.076	.085	.068	.054	.049	.040	.032	.016	.013	.010	
5.0	.134	.100	.075	.115	.087	.066	.079	.061	.046	.046	.036	.027	.015	.012	.009	
6.0	.126	.091	.066	.108	.079	.057	.075	.055	.040	.043	.032	.024	.014	.011	.008	
7.0	.119	.083	.058	.102	.072	.050	.071	.050	.036	.041	.030	.021	.013	.010	.007	
8.0	.113	.077	.052	.097	.066	.045	.067	.047	.032	.039	.027	.019	.013	.009	.006	
9.0	.107	.071	.047	.092	.062	.041	.064	.043	.029	.037	.026	.017	.012	.008	.006	
10.0	.102	.066	.043	.088	.058	.037	.061	.041	.027	.036	.024	.016	.012	.008	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HSO
Test Date: 24 October 2006

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: NCD-400C-D20

UGR(Unified Glare Rating) Table

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm										
NAME: NCD-400C-D20					TYPE:LED			WEIGHT:		
SPEC.:SB3535_274EA_D1*2EA					DIM.:			SERIAL No.:1		
MFR.: ICEPIPE					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.0	21.9	21.3	22.0	22.2	21.5	22.3	21.8	22.5	22.7
3H	21.7	22.5	22.0	22.7	23.0	22.3	23.0	22.6	23.3	23.5
4H	22.0	22.7	22.2	22.9	23.2	22.5	23.3	22.8	23.5	23.8
6H	22.0	22.7	22.3	23.0	23.3	22.7	23.4	23.0	23.6	23.9
8H	22.0	22.7	22.3	23.0	23.2	22.7	23.3	23.0	23.6	23.9
12H	22.0	22.6	22.3	22.9	23.2	22.7	23.3	23.0	23.6	23.9
4H 2H	21.4	22.1	21.7	22.3	22.6	21.8	22.5	22.1	22.8	23.0
3H	22.2	22.9	22.6	23.2	23.5	22.7	23.4	23.1	23.7	24.0
4H	22.5	23.1	22.9	23.4	23.7	23.1	23.7	23.4	24.0	24.3
6H	22.6	23.1	23.0	23.5	23.9	23.3	23.8	23.7	24.1	24.5
8H	22.6	23.1	23.0	23.5	23.9	23.3	23.8	23.7	24.2	24.6
12H	22.6	23.0	23.0	23.4	23.8	23.3	23.7	23.7	24.1	24.5
8H 4H	22.6	23.0	23.0	23.4	23.8	23.1	23.6	23.5	24.0	24.4
6H	22.7	23.1	23.2	23.5	24.0	23.4	23.8	23.8	24.2	24.6
8H	22.7	23.1	23.2	23.5	24.0	23.4	23.8	23.9	24.2	24.7
12H	22.7	23.0	23.2	23.5	24.0	23.4	23.7	23.9	24.2	24.7
12H 4H	22.5	23.0	23.0	23.4	23.8	23.1	23.5	23.5	23.9	24.3
6H	22.7	23.1	23.2	23.5	24.0	23.3	23.7	23.8	24.1	24.6
8H	22.7	23.0	23.2	23.5	24.0	23.4	23.7	23.9	24.2	24.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.8 / - 0.9				
1.5H	+ 1.3 / - 0.7					+ 1.6 / - 0.8				
2.0H	+ 0.7 / - 0.5					+ 0.7 / - 0.4				

CIE Pub.117 Corrected 59503 lm Total Lamp Luminous Flux.(8log(F/F0) = 14.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

UTILIZATION FACTORS TABLE

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

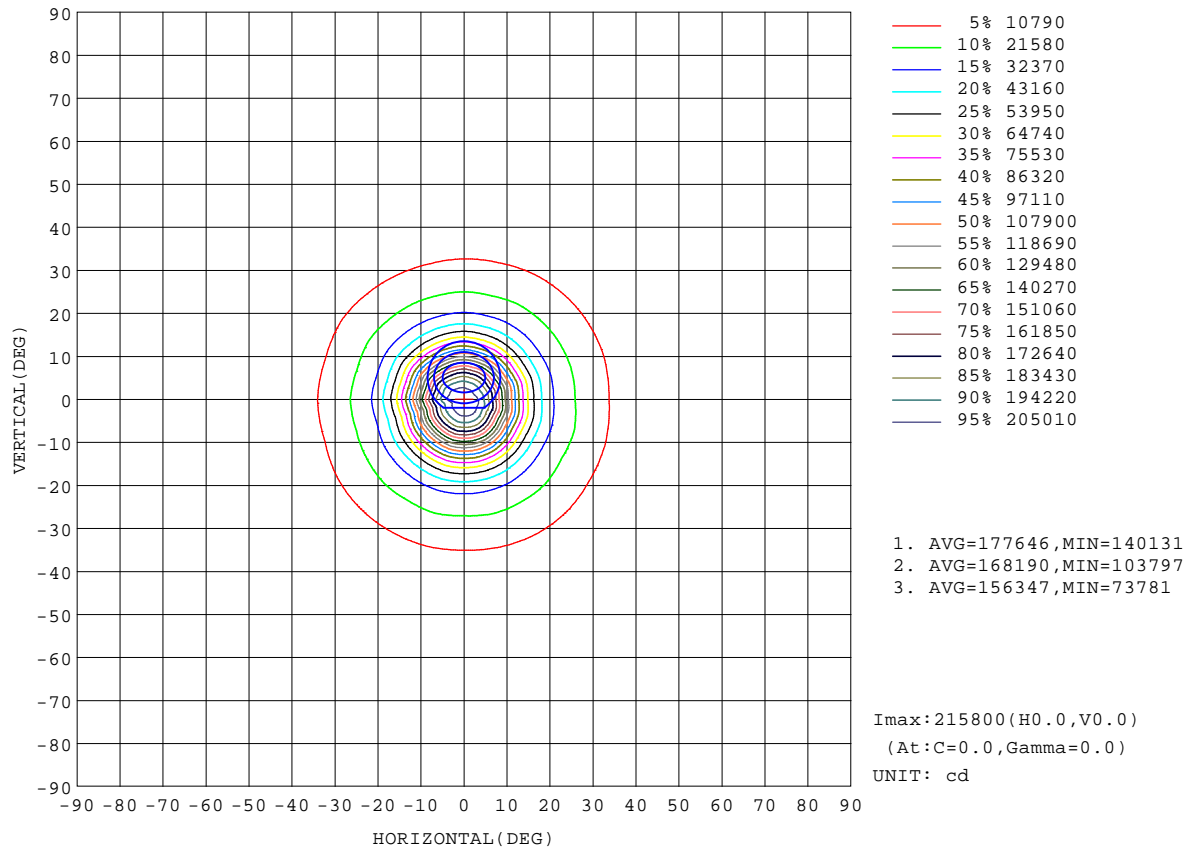
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	82	76	73	69
0.80	92	85	81	91	85	81	89	84	80	76
1.00	96	90	86	95	90	86	93	89	85	81
1.25	101	95	91	99	94	90	97	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	98	105	101	98	102	99	96	90
2.50	109	104	101	107	103	100	103	100	98	91
3.00	110	107	104	108	105	102	105	102	100	93
4.00	113	110	107	110	108	106	106	104	103	95
5.00	114	111	109	112	109	108	107	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

ISOCANDELA DIAGRAM

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

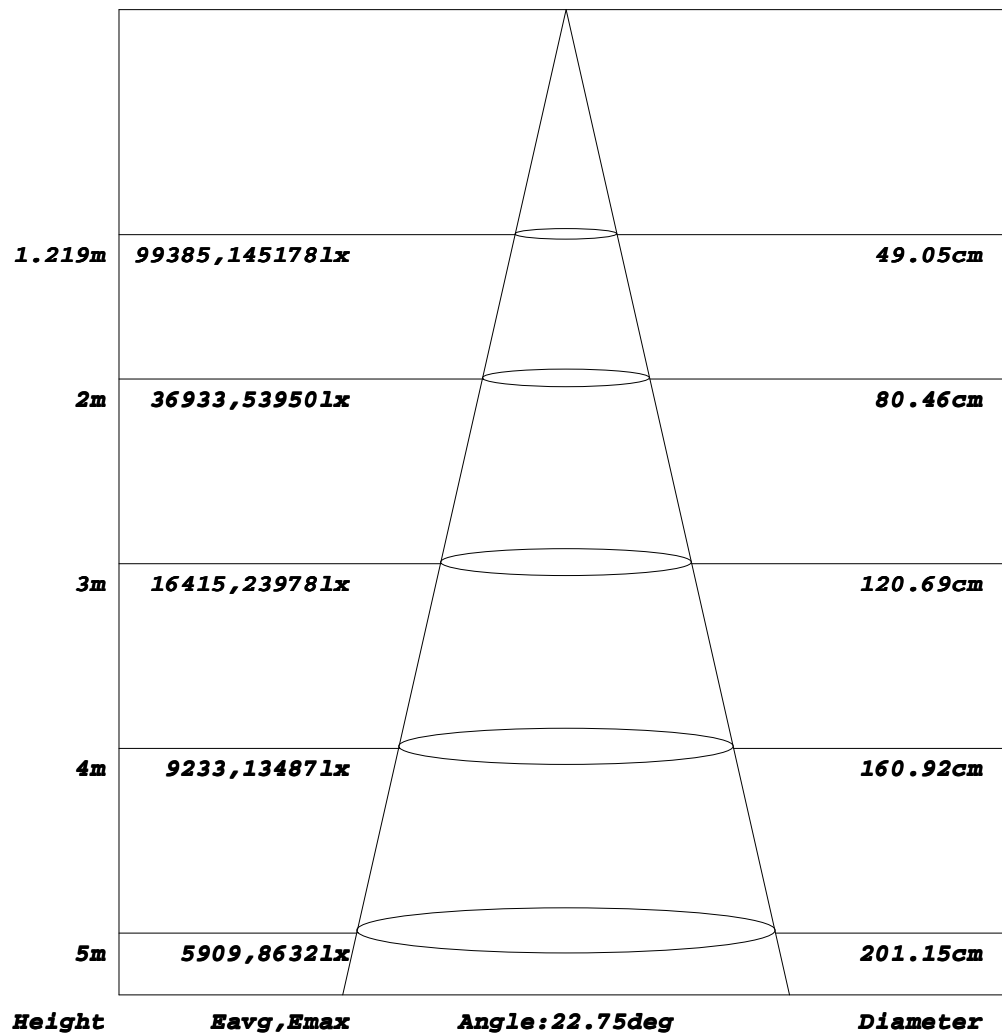


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

AAI Figure

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503lx 1m		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Flux out:20969 lm


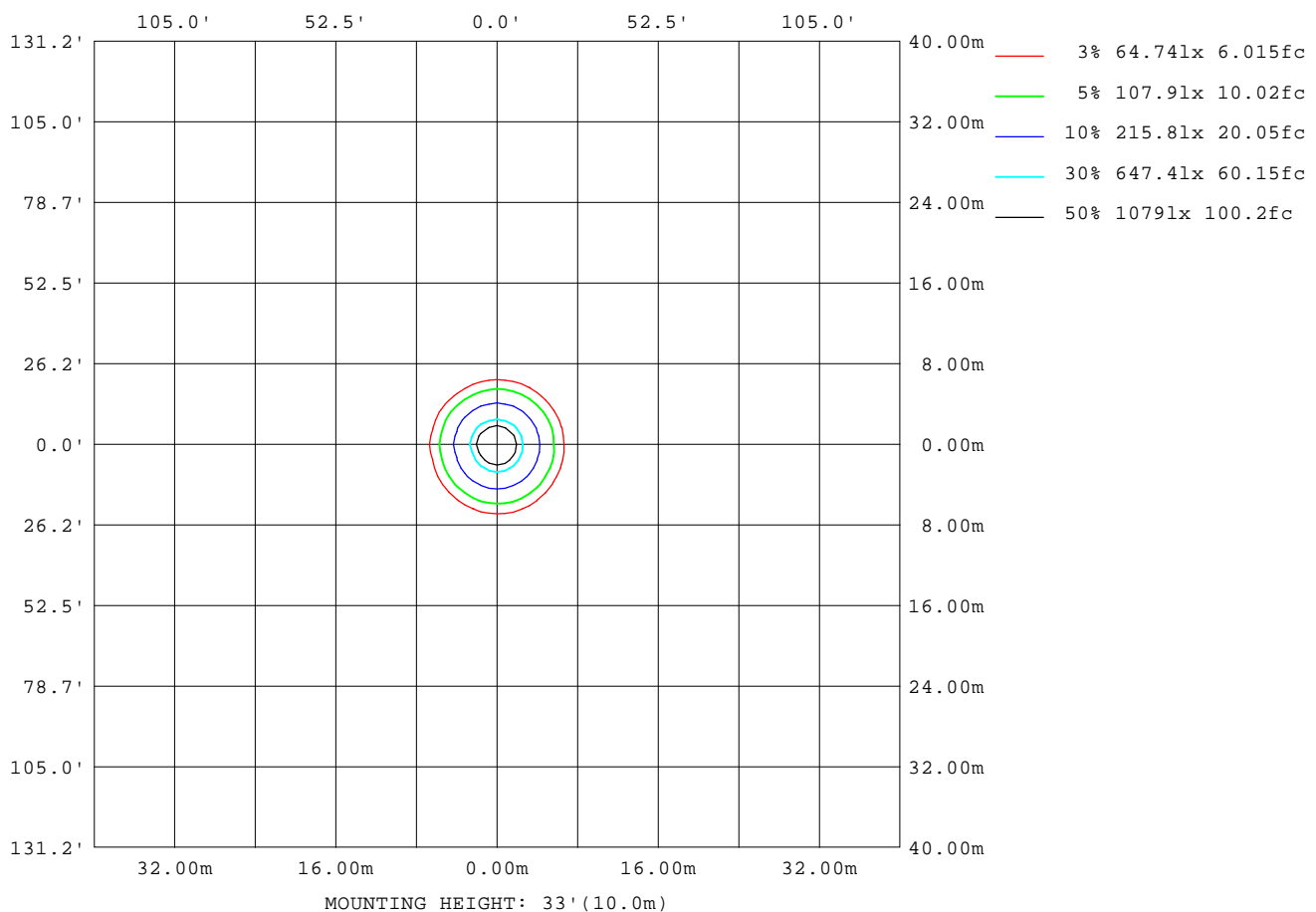
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HSO
Test Date: 24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: NCD-400C-D20

ISOLUX DIAGRAM

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

LED Avg.L Report

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

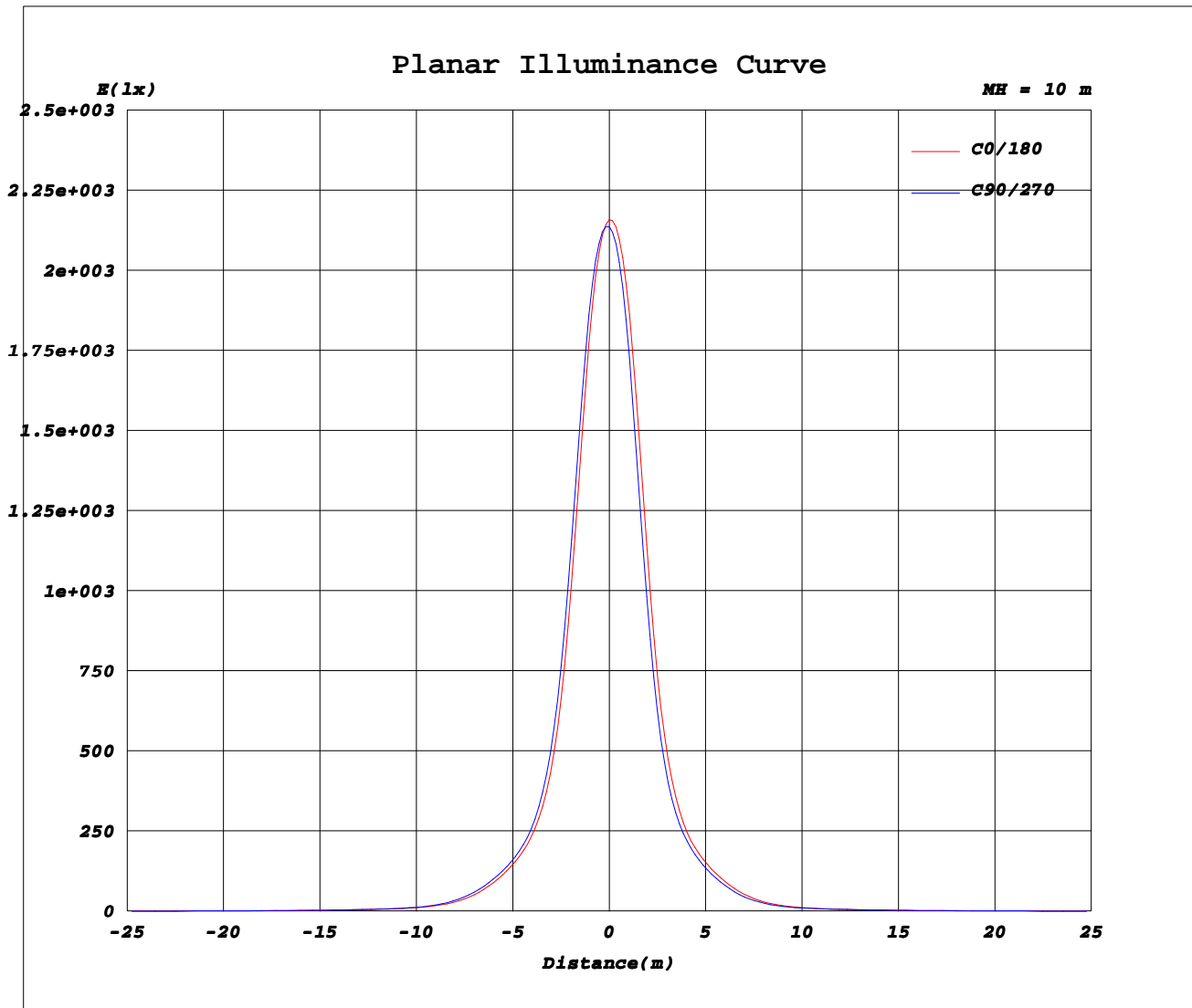
AvgL	cd/m2
L_0~180(65)av	30194
L_0~180(75)av	19613
L_0~180(85)av	6653
L_90~270(65)av	30743
L_90~270(75)av	21369
L_90~270(85)av	8384
L_45(65)av	29578
L_45(75)av	20139
L_45(85)av	8072

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HSO
Test Date: 24 October 2006

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: NCD-400C-D20

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--1

UNIT: #100cd

<div> <div>C(DEG)</div> <div>γ (DEG)</div> </div>	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2158	2156	2153	2150	2145	2141	2137	2131	2126	2123	2118	2116	2158	2156	2153	2150	2145	2141	2137
5	1911	1947	1935	1969	1986	1987	1979	1980	1960	1947	1936	1902	1983	1944	1949	1908	1877	1868	1868
10	1231	1294	1281	1342	1382	1385	1372	1379	1347	1325	1315	1260	1359	1289	1298	1233	1185	1174	1177
15	633	672	664	703	731	737	730	734	713	699	688	652	707	664	669	630	602	595	597
20	351	367	366	381	394	395	394	395	386	377	373	355	379	357	359	341	330	326	328
25	230	242	240	250	253	256	252	255	246	245	238	232	241	228	230	219	215	212	215
30	155	165	163	172	174	177	174	175	167	166	161	155	162	151	153	143	140	137	141
35	93.9	99.9	99.6	106	110	111	109	109	105	102	99.1	92.9	97.1	90.5	90.4	83.7	79.5	79.8	82.8
40	52.7	55.6	54.7	58.9	61.6	62.1	60.7	61.9	60.1	58.3	54.8	51.0	53.7	50.4	49.9	45.7	43.9	44.7	46.3
45	33.0	34.2	33.2	35.5	37.0	36.6	35.4	36.8	36.7	35.6	32.9	31.6	33.1	31.7	30.9	29.1	28.7	29.3	29.6
50	24.6	25.0	24.8	25.8	26.5	26.2	25.7	26.2	26.3	25.7	24.6	23.6	24.5	23.7	23.4	22.7	22.7	22.7	22.9
55	20.1	20.4	20.6	21.0	21.5	21.2	21.2	21.1	21.3	20.8	20.3	19.6	20.3	19.6	19.8	19.2	19.3	19.1	19.4
60	16.3	16.3	16.8	17.0	17.6	17.2	17.5	17.2	17.4	16.8	16.6	15.8	16.7	15.9	16.5	15.8	16.1	15.6	16.2
65	12.5	12.3	12.6	13.0	13.7	13.3	13.5	13.3	13.6	12.8	12.7	12.0	13.1	12.2	12.6	12.1	12.5	12.1	12.5
70	8.32	8.47	8.50	9.00	9.62	9.49	9.51	9.51	9.50	8.95	8.66	8.26	8.93	8.37	8.61	8.40	8.68	8.47	8.64
75	4.86	5.03	4.98	5.45	5.97	5.95	5.90	5.98	5.87	5.46	5.15	4.89	5.29	4.94	5.09	5.00	5.20	5.11	5.17
80	2.11	2.22	2.14	2.64	2.93	2.97	2.88	3.00	2.86	2.66	2.29	2.18	2.43	2.15	2.20	2.27	2.37	2.30	2.36
85	0.58	0.65	0.67	0.83	0.94	0.95	0.91	0.97	0.92	0.86	0.73	0.65	0.58	0.50	0.57	0.58	0.56	0.54	0.55
90	0.40	0.39	0.39	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.39	0.16	0.17	0.17	0.17	0.17	0.17	0.16
95	0.50	0.49	0.49	0.48	0.47	0.47	0.47	0.46	0.47	0.47	0.47	0.48	0.19	0.19	0.19	0.20	0.20	0.20	0.20
100	0.62	0.60	0.60	0.59	0.58	0.58	0.58	0.57	0.58	0.58	0.58	0.59	0.24	0.24	0.24	0.25	0.25	0.26	0.25
105	0.74	0.72	0.72	0.71	0.70	0.69	0.69	0.69	0.70	0.70	0.71	0.72	0.31	0.32	0.32	0.33	0.34	0.34	0.34
110	0.88	0.85	0.85	0.84	0.83	0.82	0.82	0.82	0.83	0.83	0.84	0.85	0.42	0.44	0.44	0.45	0.46	0.46	0.46
115	1.06	1.03	1.03	1.00	0.99	0.99	0.99	0.99	1.00	1.00	1.01	1.03	0.58	0.61	0.60	0.62	0.64	0.64	0.63
120	1.33	1.29	1.29	1.25	1.23	1.23	1.23	1.23	1.24	1.26	1.27	1.30	0.82	0.86	0.85	0.88	0.90	0.91	0.90
125	1.74	1.67	1.68	1.63	1.61	1.59	1.61	1.60	1.63	1.63	1.66	1.69	1.20	1.25	1.24	1.29	1.31	1.32	1.31
130	2.26	2.19	2.20	2.14	2.11	2.10	2.11	2.10	2.13	2.15	2.17	2.21	1.73	1.80	1.78	1.84	1.87	1.88	1.86
135	2.80	2.74	2.74	2.68	2.65	2.64	2.66	2.64	2.68	2.69	2.71	2.75	2.35	2.42	2.40	2.46	2.49	2.50	2.47
140	3.26	3.21	3.20	3.16	3.13	3.12	3.13	3.12	3.14	3.16	3.17	3.20	2.93	2.98	2.97	3.01	3.04	3.04	3.02
145	3.58	3.54	3.54	3.50	3.48	3.47	3.48	3.47	3.48	3.50	3.50	3.53	3.37	3.40	3.39	3.42	3.43	3.43	3.42
150	3.78	3.76	3.75	3.72	3.70	3.70	3.70	3.70	3.70	3.71	3.72	3.73	3.65	3.67	3.66	3.67	3.68	3.67	3.66
155	3.90	3.88	3.87	3.86	3.84	3.83	3.83	3.83	3.83	3.84	3.84	3.85	3.82	3.82	3.82	3.82	3.82	3.82	3.81
160	3.91	3.91	3.90	3.89	3.88	3.88	3.88	3.87	3.88	3.88	3.88	3.88	3.88	3.87	3.87	3.87	3.86	3.86	3.84
165	3.82	3.83	3.81	3.81	3.81	3.81	3.81	3.81	3.80	3.81	3.80	3.79	3.82	3.80	3.80	3.78	3.77	3.76	3.75
170	3.61	3.62	3.60	3.61	3.61	3.62	3.62	3.63	3.62	3.61	3.60	3.58	3.63	3.60	3.60	3.58	3.57	3.56	3.56
175	3.37	3.39	3.37	3.38	3.38	3.39	3.40	3.40	3.38	3.36	3.35	3.33	3.40	3.37	3.37	3.35	3.35	3.35	3.35
180	3.29	3.28	3.27	3.27	3.27	3.29	3.29	3.28	3.26	3.25	3.24	3.24	3.30	3.28	3.28	3.27	3.28	3.28	3.30

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.844A P:395.4W PF:0.9747 Lamp Flux:59503x1 lm		
NAME: NCD-400C-D20	TYPE:LED	WEIGHT:
SPEC.:SB3535_274EA_D1*2EA	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: #100cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2131	2126	2123	2118	2116														
5	1855	1865	1871	1870	1902														
10	1162	1182	1197	1200	1251														
15	590	602	611	615	648														
20	325	332	337	340	353														
25	212	219	220	225	230														
30	139	145	147	151	156														
35	82.7	85.0	87.1	90.4	95.3														
40	45.9	46.7	47.3	49.4	53.3														
45	29.5	30.2	30.0	31.0	33.0														
50	22.9	23.2	23.2	23.7	24.4														
55	19.2	19.7	19.5	19.7	19.8														
60	15.7	16.3	15.9	16.1	15.9														
65	12.1	12.7	12.1	12.2	12.0														
70	8.51	8.75	8.34	8.15	8.22														
75	5.13	5.25	4.93	4.70	4.82														
80	2.31	2.39	2.22	1.95	2.07														
85	0.54	0.57	0.54	0.47	0.49														
90	0.16	0.16	0.16	0.16	0.16														
95	0.20	0.20	0.19	0.19	0.18														
100	0.25	0.25	0.24	0.24	0.23														
105	0.34	0.33	0.32	0.32	0.31														
110	0.46	0.45	0.44	0.43	0.42														
115	0.63	0.62	0.61	0.60	0.58														
120	0.90	0.88	0.86	0.85	0.82														
125	1.31	1.28	1.26	1.24	1.20														
130	1.87	1.82	1.81	1.78	1.73														
135	2.48	2.44	2.42	2.39	2.34														
140	3.02	2.99	2.97	2.95	2.91														
145	3.41	3.39	3.38	3.36	3.33														
150	3.66	3.64	3.63	3.62	3.60														
155	3.80	3.78	3.77	3.77	3.76														
160	3.83	3.82	3.82	3.82	3.82														
165	3.74	3.74	3.73	3.74	3.74														
170	3.53	3.53	3.53	3.53	3.55														
175	3.33	3.32	3.32	3.32	3.32														
180	3.28	3.26	3.25	3.24	3.24														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HSO
Test Date:24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: NCD-400C-D20

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	215800	215602	215264	215018	214458	214079	213664	213116	212649	212266
3.0	206478	208407	207707	209302	210206	209970	209336	209072	207829	206985
6.0	180184	184810	183380	187523	190008	190073	189157	189479	187174	185613
9.0	138132	144547	143287	149079	152984	153312	151930	152614	149521	147304
12.0	95121	100868	99724	105168	109121	109674	108621	108960	106018	104187
15.0	63263	67167	66433	70277	73121	73703	73024	73436	71302	69931
18.0	43389	45807	45510	47786	49473	49793	49577	49818	48513	47442
21.0	31893	33297	33226	34466	35541	35608	35524	35608	34871	34072
24.0	24792	26110	25859	26959	27297	27687	27296	27615	26664	26478
27.0	19760	20958	20590	21678	21788	22202	21737	22059	21143	21107
30.0	15467	16524	16317	17194	17384	17726	17352	17518	16706	16611
33.0	11669	12355	12359	13047	13310	13570	13290	13365	12825	12534
36.0	8351	8927	8850	9487	9810	9952	9789	9830	9411	9179
39.0	5888	6243	6149	6635	6915	6992	6845	6945	6712	6523
42.0	4277	4476	4370	4702	4926	4934	4781	4936	4841	4692
45.0	3301	3425	3319	3550	3701	3661	3544	3676	3666	3563
48.0	2710	2773	2731	2870	2967	2947	2858	2955	2942	2878
51.0	2353	2388	2383	2463	2527	2492	2464	2491	2504	2452
54.0	2092	2116	2134	2185	2237	2202	2196	2194	2220	2157
57.0	1851	1880	1899	1947	1987	1968	1960	1963	1965	1923
60.0	1631	1631	1681	1699	1760	1722	1749	1717	1742	1676
63.0	1404	1387	1435	1453	1527	1486	1513	1484	1516	1436
66.0	1166	1154	1177	1213	1291	1255	1271	1255	1280	1203
69.0	913.9	920.1	927.0	974.8	1041	1021	1027	1023	1029	967.5
72.0	683.6	701.6	704.1	752.3	810.6	800.9	802.8	805.7	799.3	750.5
75.0	486.3	502.8	497.6	545.2	596.8	595.5	589.5	598.2	587.0	546.4
78.0	314.5	326.5	314.2	364.2	404.8	405.0	397.1	408.6	395.7	366.2
81.0	167.7	178.1	173.3	216.6	243.4	245.4	239.6	248.4	236.8	218.3
84.0	75.61	84.44	85.63	109.3	126.5	125.1	122.9	128.1	123.1	111.9
87.0	39.62	42.57	42.71	48.36	51.46	52.71	50.70	53.48	50.18	49.17
90.0	39.77	39.37	39.34	38.19	37.42	37.00	36.78	36.59	37.02	37.41
93.0	45.85	44.89	44.88	43.81	42.93	42.47	42.36	42.12	42.61	42.98
96.0	52.50	51.01	51.01	49.89	49.12	48.74	48.69	48.41	48.84	49.03
99.0	59.48	57.88	57.84	56.55	55.74	55.42	55.40	55.14	55.54	55.75
102.0	66.63	64.94	64.86	63.52	62.58	62.35	62.33	62.08	62.51	62.81
105.0	74.01	72.20	72.11	70.69	69.70	69.46	69.48	69.28	69.76	70.14
108.0	81.88	79.89	79.78	78.25	77.18	76.96	77.05	76.87	77.42	77.93
111.0	90.68	88.48	88.37	86.58	85.45	85.22	85.39	85.21	85.90	86.47
114.0	101.3	98.75	98.59	96.51	95.13	94.88	95.13	94.94	95.84	96.58
117.0	114.9	111.7	111.6	108.9	107.2	107.0	107.3	107.0	108.2	109.1
120.0	132.6	128.5	128.6	123.2	122.7	122.7	123.3	122.8	124.4	125.5
123.0	155.6	149.7	150.7	145.7	143.9	143.2	144.1	143.5	145.6	146.2
126.0	183.5	177.0	178.1	172.2	169.9	168.6	170.2	169.0	172.0	172.9
129.0	215.1	208.1	209.1	203.0	200.1	198.8	200.6	199.2	202.6	203.5
132.0	248.2	241.1	242.2	235.8	232.8	231.4	233.3	231.8	235.1	236.2
135.0	280.3	273.7	274.1	268.3	265.4	264.0	265.7	264.3	267.6	268.7
138.0	308.9	303.3	303.4	298.3	295.2	294.3	295.3	294.6	297.1	298.4
141.0	333.2	328.5	328.2	324.0	321.3	320.4	321.0	320.4	322.4	323.6
144.0	352.4	348.5	348.0	344.6	342.1	341.3	341.8	341.3	342.7	343.9
147.0	367.0	363.9	363.0	360.5	358.1	357.6	357.7	358.3	358.5	359.3
150.0	378.0	375.6	374.6	372.4	370.4	369.8	370.0	369.6	370.3	371.2
153.0	386.0	384.1	383.1	381.0	379.5	378.9	378.8	378.5	379.3	379.8
156.0	390.9	389.4	388.2	387.1	385.4	384.8	384.8	384.7	385.0	385.6
159.0	392.1	391.5	390.0	389.2	387.9	387.5	387.6	387.3	387.6	387.8
162.0	389.0	389.2	387.5	386.6	386.3	386.3	386.3	386.4	386.2	386.4
165.0	382.1	382.7	380.6	381.0	380.6	380.7	380.6	381.0	380.5	380.5
168.0	370.4	371.7	369.6	370.3	370.7	370.7	370.5	371.3	370.3	370.2
171.0	356.0	357.3	354.9	356.4	356.7	357.2	357.2	358.0	356.8	356.2
174.0	341.7	343.4	341.3	342.5	342.3	343.8	344.1	344.5	342.7	341.1
177.0	330.7	331.7	330.0	330.8	330.8	332.5	333.3	333.4	330.3	328.7
180.0	329.0	328.5	327.4	327.3	327.1	328.8	329.2	328.5	325.7	325.1
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	211777	211620	215800	215602	215264	215018	214458	214079	213664	213116
3.0	206180	204223	210548	208390	208531	206256	204166	203461	203374	202243
6.0	184434	180375	189383	184402	184995	180165	176321	175394	175468	173864
9.0	146119	140510	150731	143955	144904	138373	133381	132197	132543	131088
12.0	103134	97843	106339	100337	101049	95389	91335	90388	90640	89328
15.0	68847	65164	70708	66428	66891	62974	60178	59494	59749	59016
18.0	46808	44473	47764	44854	45083	42565	41123	40523	40741	40342
21.0	33663	32115	34049	32193	32370	30890	29971	29565	29822	29585
24.0	25824	25076	26163	24640	24979	23762	23346	22906	23310	22949
27.0	20423	19971	20632	19513	19605	18715	18323	18053	18286	18145
30.0	16052	15544	16175	15122	15264	14305	13985	13671	14058	13921

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: HSO

Test Date: 24 October 2006

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351

Humidity: 65.0%

Test Distance: 8.100m [K=1.0000]

Remarks: NCD-400C-D20

Photometric Data Table [cd]

33.0	12218	11541	12078	11262	11300	10531	10098	10029	10356	10342
36.0	8825	8255	8613	8064	8038	7428	7011	7083	7366	7351
39.0	6165	5728	6014	5636	5613	5142	4903	4981	5181	5138
42.0	4352	4095	4329	4085	3993	3700	3603	3670	3756	3729
45.0	3286	3158	3314	3173	3091	2910	2868	2928	2958	2946
48.0	2698	2595	2703	2612	2552	2463	2453	2479	2482	2490
51.0	2357	2268	2351	2272	2249	2189	2191	2186	2211	2201
54.0	2107	2035	2109	2034	2042	1985	1996	1979	2010	1989
57.0	1880	1817	1882	1818	1840	1792	1800	1774	1808	1786
60.0	1663	1581	1673	1589	1648	1576	1610	1561	1616	1569
63.0	1432	1350	1456	1359	1428	1355	1402	1346	1404	1352
66.0	1190	1124	1226	1139	1180	1135	1174	1134	1164	1137
69.0	942.4	899.0	974.7	910.0	935.3	911.7	941.1	917.0	935.8	920.4
72.0	722.5	684.2	737.4	691.1	715.1	698.3	722.1	709.4	721.7	713.7
75.0	515.5	489.0	529.0	494.3	509.3	500.0	519.5	511.0	516.6	513.1
78.0	331.1	317.6	352.0	319.9	323.0	325.3	338.9	333.0	335.4	333.7
81.0	187.1	173.4	193.6	169.4	176.7	183.6	192.2	186.6	189.5	186.5
84.0	94.70	83.67	80.84	70.12	78.75	82.43	82.67	80.07	80.08	79.34
87.0	45.73	42.04	27.31	24.75	27.83	25.90	23.62	23.07	23.57	22.68
90.0	37.81	38.76	16.27	17.27	17.11	17.09	16.91	16.68	16.38	16.49
93.0	43.26	44.15	17.58	18.42	18.37	18.57	18.63	18.50	18.22	18.31
96.0	49.15	50.12	19.67	20.07	20.05	20.58	20.95	20.96	20.69	20.79
99.0	55.95	57.04	22.55	23.11	23.03	23.63	24.09	24.27	24.00	24.08
102.0	63.11	64.26	26.37	27.14	27.05	27.84	28.35	28.62	28.32	28.41
105.0	70.51	71.72	31.33	32.36	32.25	33.24	33.85	34.16	33.84	33.89
108.0	78.34	79.65	37.52	38.85	38.71	39.94	40.72	41.02	40.67	40.69
111.0	86.97	88.55	45.19	46.83	46.66	48.18	49.10	49.42	48.99	49.06
114.0	97.20	99.03	54.66	56.72	56.50	58.35	59.49	59.83	59.35	59.40
117.0	109.9	112.3	66.63	69.26	68.92	71.33	72.76	73.16	72.48	72.60
120.0	126.6	129.5	82.28	85.72	85.19	88.34	90.23	90.61	89.75	89.93
123.0	148.2	151.2	103.0	107.4	106.7	110.7	113.1	113.5	112.4	112.6
126.0	175.0	178.7	129.7	135.1	134.1	138.9	141.6	142.3	140.7	141.2
129.0	205.8	209.8	161.3	168.2	166.2	172.5	174.8	176.0	173.6	174.8
132.0	238.5	242.5	197.6	204.8	202.7	209.2	211.6	212.7	210.2	211.3
135.0	270.8	274.6	235.2	242.1	240.0	246.4	248.7	249.6	247.2	248.1
138.0	299.8	303.6	271.2	277.0	275.6	280.6	283.0	283.8	281.6	281.6
141.0	324.8	328.1	303.2	307.8	306.6	310.8	312.9	312.9	311.3	311.3
144.0	344.8	347.4	329.4	332.7	332.0	334.9	336.5	336.3	335.0	334.8
147.0	360.2	362.1	349.6	352.1	351.4	353.6	354.6	354.1	353.1	352.6
150.0	371.8	373.4	365.1	366.6	366.2	367.4	368.1	367.4	366.4	365.8
153.0	380.3	381.2	376.4	377.2	376.8	377.6	377.9	376.9	376.1	375.3
156.0	385.8	386.4	384.1	384.3	383.9	384.0	384.0	383.0	382.1	381.1
159.0	388.0	387.9	388.0	387.3	387.2	386.8	386.3	385.1	384.5	383.1
162.0	386.1	385.5	387.5	386.1	386.2	384.9	384.2	383.1	382.4	380.7
165.0	380.2	378.9	382.2	379.8	380.3	378.3	377.2	376.0	375.5	373.9
168.0	369.5	367.9	372.1	369.3	369.9	367.1	366.0	364.4	364.3	362.4
171.0	355.3	353.1	358.6	355.3	356.0	353.4	352.3	351.2	351.1	349.0
174.0	339.9	337.9	344.5	340.8	341.1	338.7	338.5	338.5	338.5	336.3
177.0	327.9	326.5	333.5	330.8	330.9	329.0	329.2	330.2	330.8	328.9
180.0	324.5	323.9	329.7	328.0	327.7	327.0	327.6	328.3	329.5	328.3
G/C	300.0	315.0	330.0	345.0						
0.0	212649	212266	211777	211620						
3.0	202686	202857	202536	204221						
6.0	175397	176330	176151	180214						
9.0	133039	134528	134741	139940						
12.0	91063	92330	92876	97579						
15.0	60219	61125	61522	64825						
18.0	41288	41823	42097	43992						
21.0	30208	30620	30882	32051						
24.0	23680	23743	24325	24811						
27.0	18754	18951	19339	19841						
30.0	14525	14667	15125	15623						
33.0	10692	10917	11300	11821						
36.0	7511	7728	8019	8516						
39.0	5225	5316	5563	5990						
42.0	3806	3823	3972	4292						
45.0	3016	3003	3096	3299						
48.0	2523	2523	2581	2713						
51.0	2238	2230	2274	2335						
54.0	2037	2019	2047	2063						
57.0	1829	1807	1826	1830						
60.0	1632	1585	1615	1590						
63.0	1420	1357	1386	1352						
66.0	1187	1135	1137	1127						

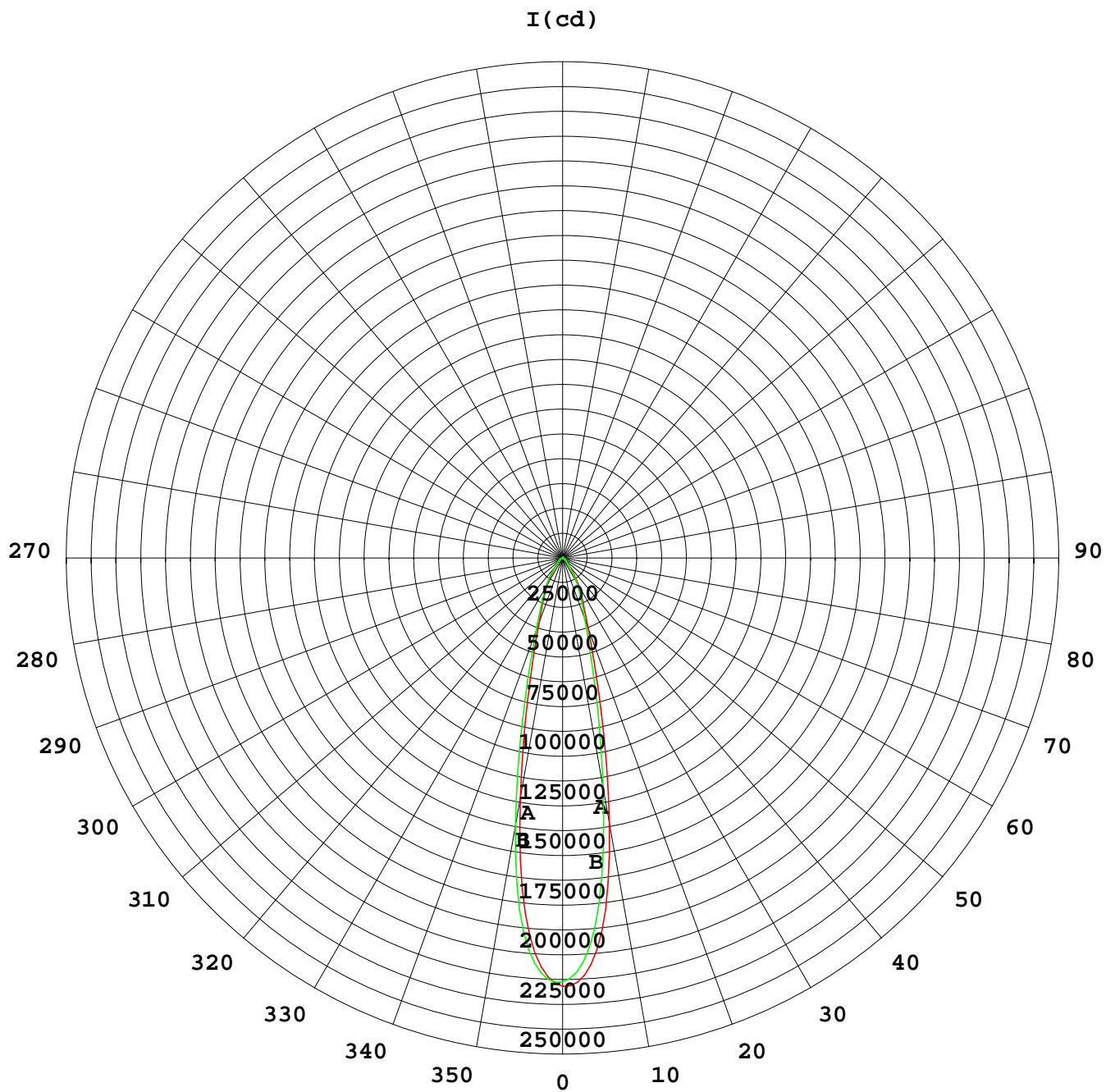
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HSO
Test Date: 24 October 2006
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: NCD-400C-D20

Photometric Data Table [cd]

69.0	949.0	906.3	890.0	894.8
72.0	728.4	693.4	673.2	679.1
75.0	524.7	493.3	470.2	481.7
78.0	342.5	319.0	294.0	308.5
81.0	193.4	179.2	155.6	162.4
84.0	83.19	79.15	67.06	69.23
87.0	23.82	23.77	22.33	23.36
90.0	16.39	16.41	16.37	16.17
93.0	18.13	17.98	17.74	17.35
96.0	20.43	20.05	19.64	19.07
99.0	23.56	23.06	22.67	21.93
102.0	27.68	27.17	26.66	25.72
105.0	33.00	32.41	31.77	30.63
108.0	39.62	38.90	38.16	36.75
111.0	47.80	46.91	46.06	44.37
114.0	57.90	56.89	55.89	53.84
117.0	70.82	69.64	68.48	65.92
120.0	87.73	86.27	84.86	81.71
123.0	109.8	108.2	106.5	102.5
126.0	137.8	135.7	133.9	129.3
129.0	170.2	168.8	166.1	161.6
132.0	206.8	205.1	202.3	197.4
135.0	243.6	242.2	239.3	234.4
138.0	278.2	276.4	274.2	269.8
141.0	308.2	306.2	304.7	300.4
144.0	332.2	330.7	329.5	325.9
147.0	350.6	349.4	348.3	345.6
150.0	364.3	363.2	362.4	360.3
153.0	373.9	373.3	372.5	371.1
156.0	380.1	379.5	379.0	378.2
159.0	382.5	382.0	381.7	381.4
162.0	380.3	380.1	380.1	380.3
165.0	373.7	373.5	373.5	374.4
168.0	362.6	362.3	362.7	363.9
171.0	348.8	348.6	348.6	349.9
174.0	335.6	335.5	335.6	336.3
177.0	327.2	326.8	326.3	326.4
180.0	326.1	324.9	324.5	323.8

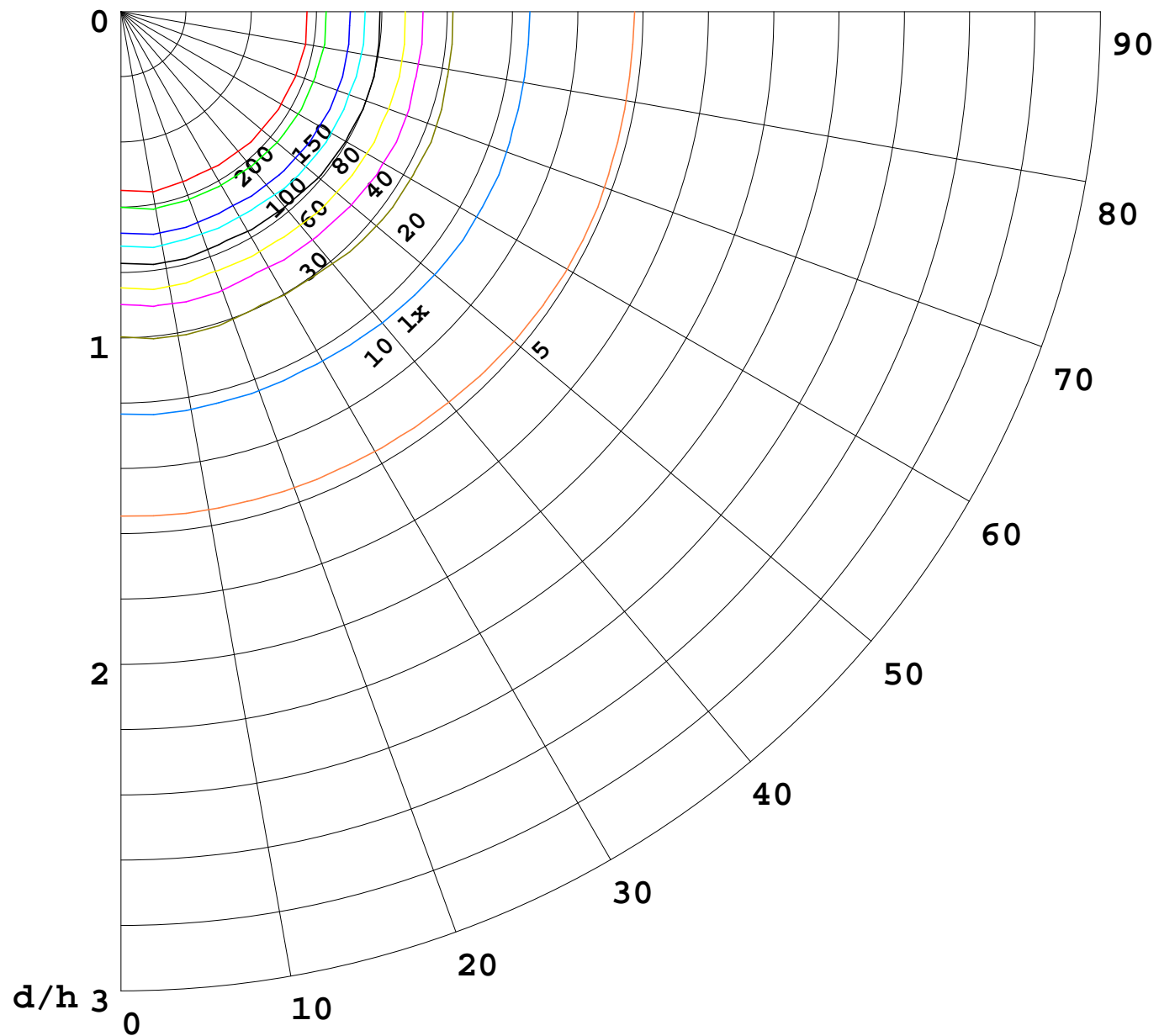
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HSO
Test Date: 24 October 2006

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: NCD-400C-D20



1000 lm

$K = 1$



F = 1000 lm
 K = 0.7
 H_{cc} = 0.8 m
 H_{fc} = 0.0 m
 E_{ave} = 100 lx

	P_{cc}	P_w	P_{fc}
—————	70	50	30
—————	50	30	20

