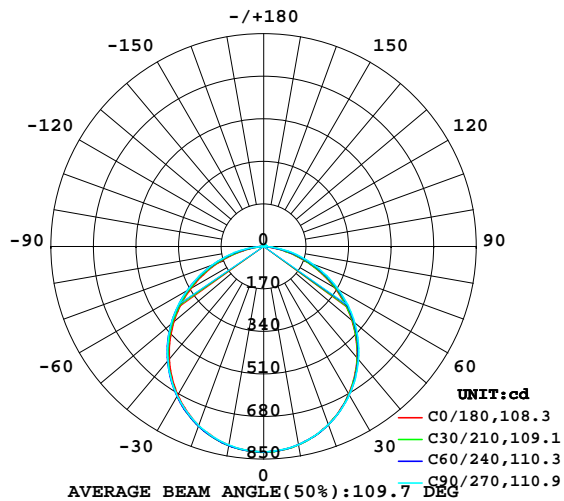
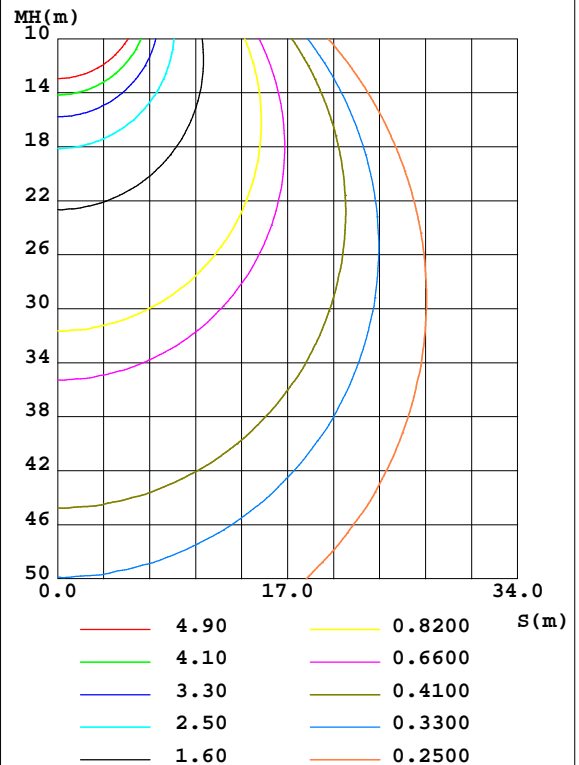


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.01 lm/W			
MODEL	GD6-20	Imax(cd)	823.9	S/MH(C0/180)	1.24
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2287.8	η UP,DN(C0-180)	0.9,48.8
NOMINAL FLUX(lm)	2287.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.8,49.4
LAMPS INSIDE	1	η up(%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.2	CIBSE SHR MAX	1.35

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:OHS
Test Date:19 October 2022

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: Z-DL-20eL

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	804.2	804.9	803.5	806.9	807.4	809.7	805.7	806.6	0- 10	77.69	77.69	3.4,3.4
20	757.1	756.5	757.4	759.9	761.6	764.9	762.0	760.6	10- 20	222.0	299.7	13.1,13.1
30	680.3	685.2	684.6	686.8	686.7	691.5	690.4	686.2	20- 30	334.8	634.4	27.7,27.7
40	580.2	586.7	589.7	590.0	587.3	595.5	596.4	586.6	30- 40	400.6	1035	45.2,45.2
50	460.7	468.9	474.7	472.0	470.0	479.9	483.0	470.4	40- 50	410.8	1446	63.2,63.2
60	327.2	335.1	345.1	339.4	335.9	348.6	354.2	337.6	50- 60	364.3	1810	79.1,79.1
70	186.6	198.5	210.5	201.4	196.0	209.5	219.8	198.4	60- 70	268.9	2079	90.9,90.9
80	53.69	65.27	84.05	68.46	60.47	75.99	92.46	65.95	70- 80	143.2	2222	97.1,97.1
90	2.789	2.981	4.706	2.818	1.981	2.061	3.464	2.158	80- 90	25.34	2248	98.2,98.2
100	3.708	5.126	8.667	5.101	3.026	3.764	7.177	4.059	90-100	4.501	2252	98.4,98.4
110	4.814	6.875	8.896	6.210	4.027	5.828	7.697	5.252	100-110	6.184	2258	98.7,98.7
120	6.009	6.161	8.887	6.012	5.188	6.349	7.794	5.828	110-120	6.385	2265	99,99
130	6.311	6.689	8.766	6.405	5.745	5.535	7.892	5.396	120-130	6.042	2271	99.2,99.2
140	7.194	8.111	7.623	7.874	6.411	7.136	6.502	7.041	130-140	5.294	2276	99.5,99.5
150	7.979	8.008	8.812	7.902	7.126	7.325	8.185	7.260	140-150	4.751	2281	99.7,99.7
160	8.615	8.608	8.672	8.961	8.336	8.091	8.009	8.161	150-160	3.787	2284	99.9,99.9
170	9.012	9.054	9.463	9.133	8.766	8.746	9.138	8.825	160-170	2.472	2287	100,100
180	9.152	9.217	9.170	9.221	9.165	9.189	9.156	9.207	170-180	0.8712	2288	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1242.7 lm

%lum = 54.3%

%lamp = 54.3%

Conical surface Flux(120deg): 1810.1 lm

%lum = 79.1%

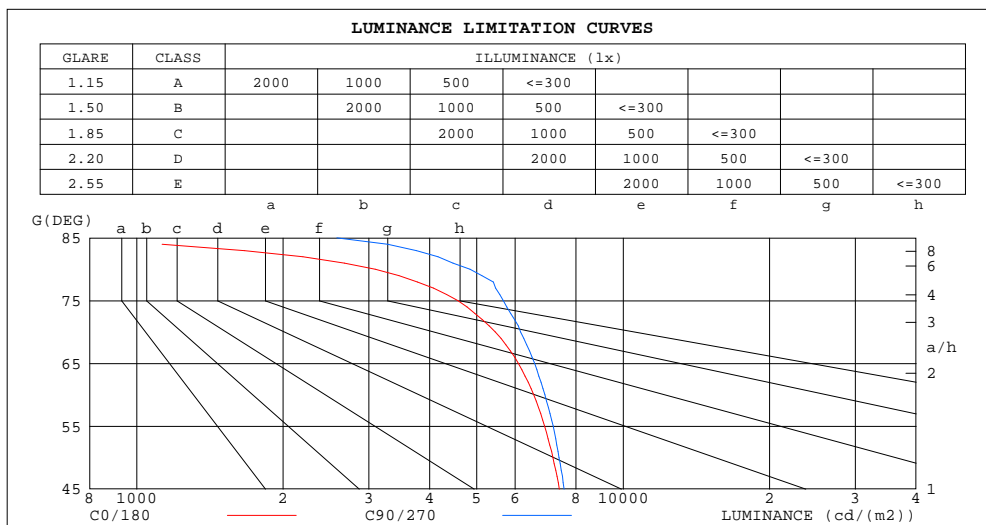
%lamp = 79.1%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:19 October 2022

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: Z-DL-20eL

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	698	2578
80	3092	4840
75	4569	5671
70	5455	6154
65	6084	6579
60	6543	6903
55	6890	7183
50	7167	7384
45	7387	7557

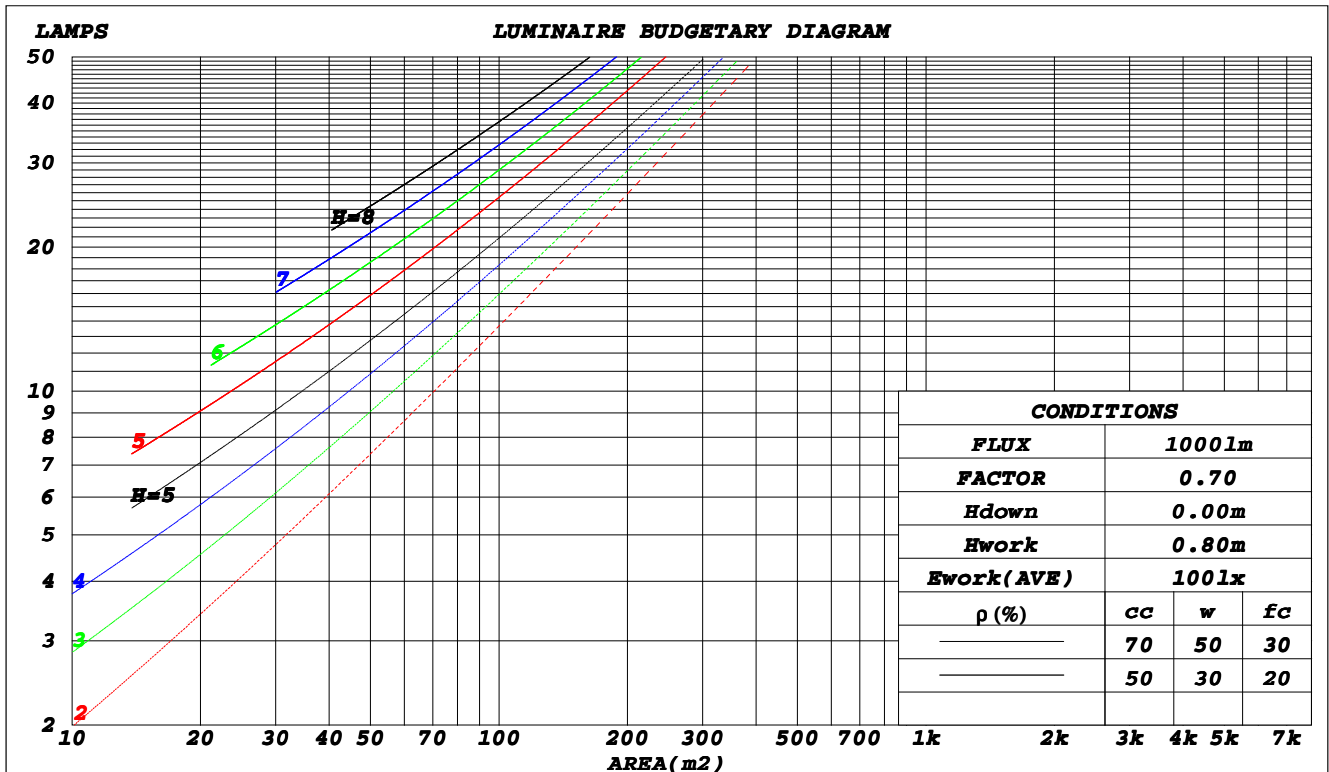
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 19 October 2022

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: Z-DL-20eL

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	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	1.00	1.00	1.00	.98
1.0	1.04	1.00	.96	1.02	.98	.95	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.82	.77	.74	.78	.75	.72	.69
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.63	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.62	.56	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.48	.62	.54	.48	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.52	.46	.41	.50	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: OHS
 Test Date: 19 October 2022

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: Z-DL-20eL

WEC AND CCEC

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	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 Coeffcients(WEC)										
0.0																	
1.0	.297	.169	.053	.289	.165	.052	.275	.158	.050	.262	.151	.048	.250	.145	.047		
2.0	.283	.155	.048	.276	.152	.047	.264	.147	.046	.252	.141	.044	.241	.137	.043		
3.0	.263	.140	.042	.258	.138	.042	.246	.134	.041	.236	.129	.040	.227	.125	.039		
4.0	.244	.127	.037	.239	.125	.037	.229	.121	.036	.220	.118	.036	.211	.115	.035		
5.0	.226	.115	.033	.222	.114	.033	.213	.111	.033	.205	.108	.032	.197	.105	.032		
6.0	.210	.105	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029		
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.172	.090	.026		
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.162	.083	.024		
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022		
10.0	.162	.078	.022	.159	.077	.021	.154	.075	.021	.149	.074	.021	.144	.073	.021		

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	.193	.170	.149	.165	.146	.128	.113	.100	.089	.065	.058	.052	.021	.019	.017	
2.0	.185	.146	.113	.158	.125	.097	.108	.087	.068	.063	.050	.040	.020	.016	.013	
3.0	.177	.128	.089	.152	.110	.077	.104	.077	.054	.060	.045	.032	.019	.015	.010	
4.0	.169	.115	.073	.145	.099	.063	.100	.069	.045	.058	.040	.026	.019	.013	.009	
5.0	.162	.104	.062	.139	.090	.054	.096	.063	.038	.056	.037	.022	.018	.012	.007	
6.0	.155	.096	.053	.133	.083	.047	.092	.058	.033	.053	.034	.020	.017	.011	.006	
7.0	.148	.089	.047	.128	.077	.041	.088	.054	.029	.051	.032	.017	.017	.010	.006	
8.0	.142	.083	.043	.122	.072	.037	.085	.051	.027	.049	.030	.016	.016	.010	.005	
9.0	.136	.078	.039	.117	.068	.034	.081	.048	.024	.047	.028	.015	.015	.009	.005	
10.0	.130	.074	.037	.112	.064	.032	.078	.045	.023	.045	.027	.014	.015	.009	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:19 October 2022

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: Z-DL-20eL

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm										
NAME: 6"다운라이트-20W					TYPE:LED			WEIGHT:		
SPEC.:20W					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	19.4	20.9	19.7	21.1	21.3	19.6	21.1	19.9	21.3	21.6
3H	20.7	22.1	21.0	22.3	22.6	21.1	22.4	21.4	22.7	23.0
4H	21.1	22.4	21.5	22.7	23.0	21.6	22.9	22.0	23.2	23.5
6H	21.3	22.5	21.7	22.8	23.1	22.0	23.2	22.4	23.5	23.9
8H	21.3	22.5	21.7	22.8	23.1	22.1	23.3	22.5	23.6	23.9
12H	21.3	22.4	21.6	22.7	23.1	22.1	23.2	22.5	23.6	23.9
4H 2H	20.0	21.3	20.3	21.5	21.8	20.1	21.4	20.5	21.7	22.0
3H	21.4	22.6	21.8	22.9	23.2	21.8	22.9	22.2	23.2	23.6
4H	22.0	23.0	22.4	23.3	23.7	22.5	23.5	22.9	23.9	24.2
6H	22.2	23.2	22.7	23.5	23.9	23.0	23.9	23.4	24.2	24.7
8H	22.3	23.1	22.7	23.5	23.9	23.1	23.9	23.5	24.3	24.7
12H	22.2	23.0	22.7	23.4	23.9	23.1	23.9	23.6	24.3	24.7
8H 4H	22.2	23.0	22.6	23.4	23.8	22.6	23.5	23.1	23.9	24.3
6H	22.6	23.2	23.0	23.7	24.1	23.2	23.9	23.7	24.4	24.8
8H	22.6	23.2	23.1	23.7	24.2	23.4	24.0	23.9	24.5	25.0
12H	22.6	23.1	23.1	23.6	24.1	23.5	24.0	24.0	24.5	25.0
12H 4H	22.2	23.0	22.6	23.4	23.8	22.6	23.4	23.1	23.8	24.3
6H	22.6	23.2	23.1	23.6	24.1	23.2	23.8	23.7	24.3	24.8
8H	22.6	23.2	23.1	23.6	24.2	23.4	23.9	23.9	24.4	24.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 2288 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.9)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:19 October 2022

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: Z-DL-20eL

UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

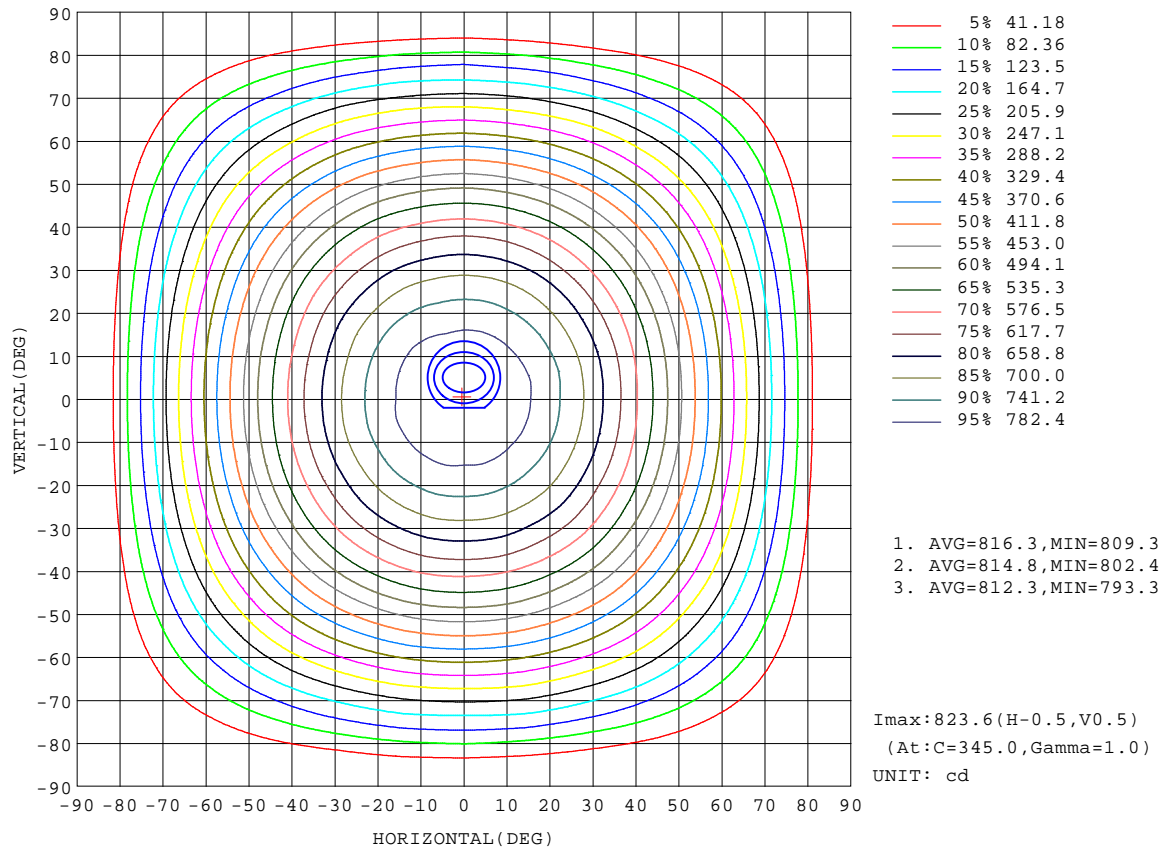
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	56	49	67	56	49	65	55	48	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	57
1.50	88	79	72	87	78	71	83	76	70	62
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	91	86	97	90	85	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	83
5.00	109	104	100	106	102	98	101	98	95	85
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:OHS
Test Date:19 October 2022

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: Z-DL-20eL

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:



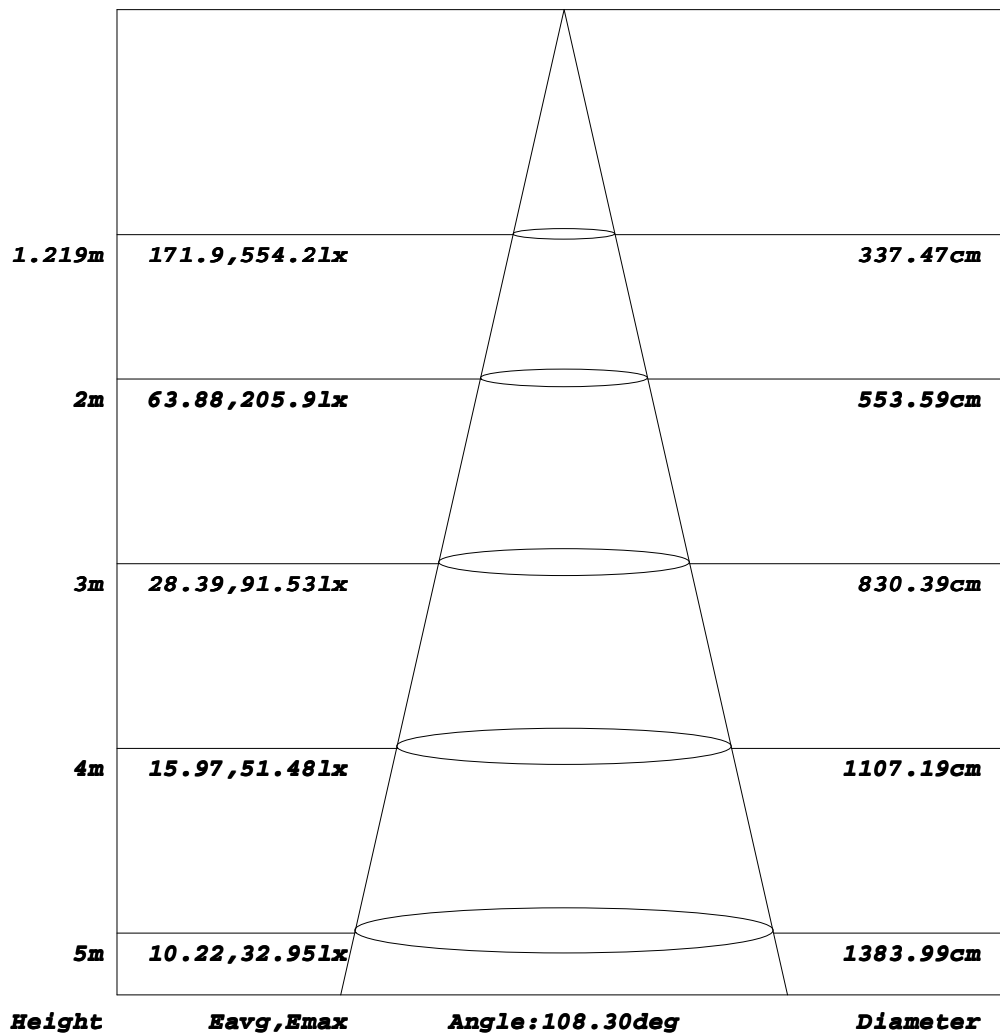
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:19 October 2022

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: Z-DL-20eL

AAI Figure

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Flux out:1637 lm



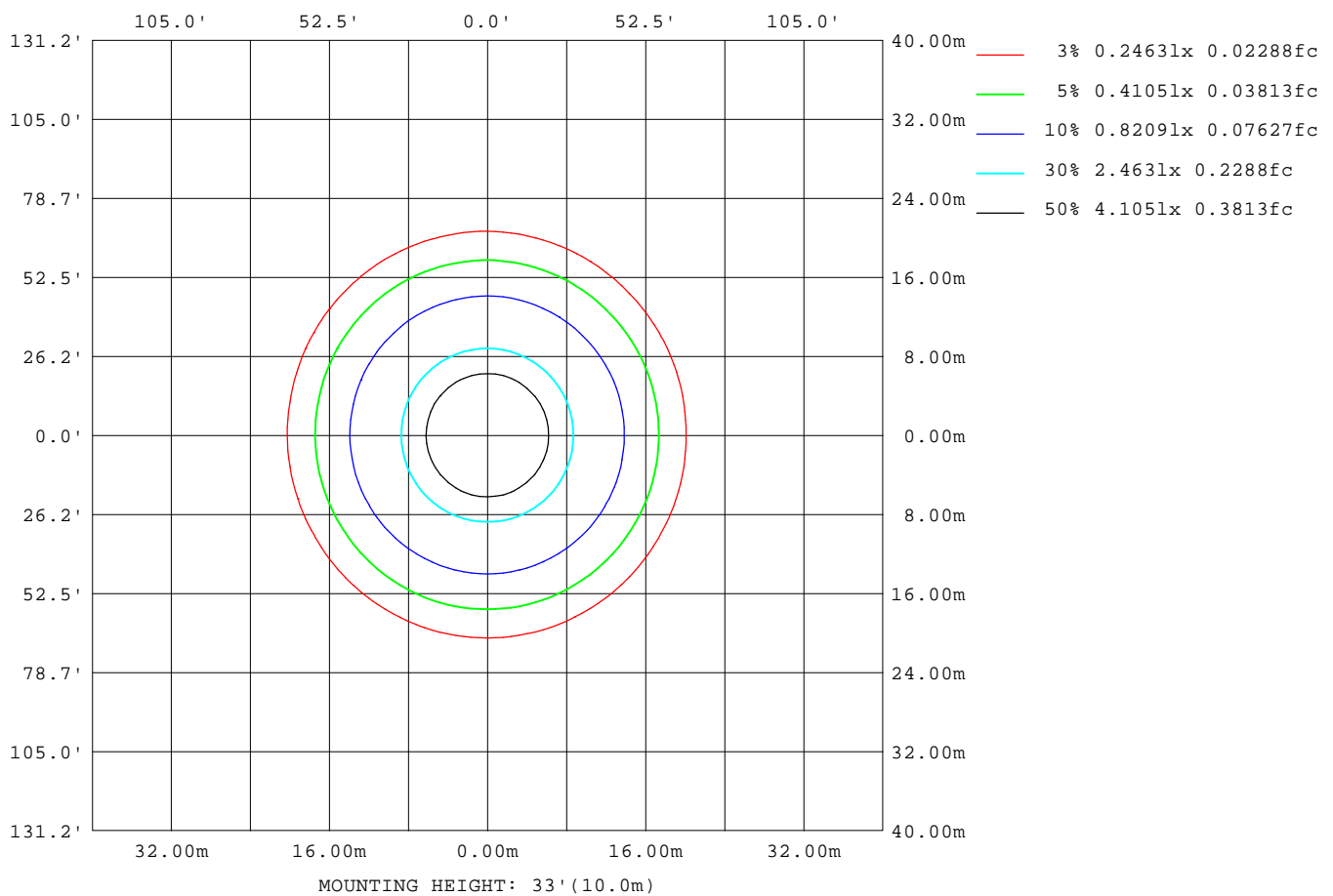
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: OHS
 Test Date: 19 October 2022

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: Z-DL-20eL

ISOLUX DIAGRAM

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 19 October 2022

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: Z-DL-20eL

LED Avg.L Report

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

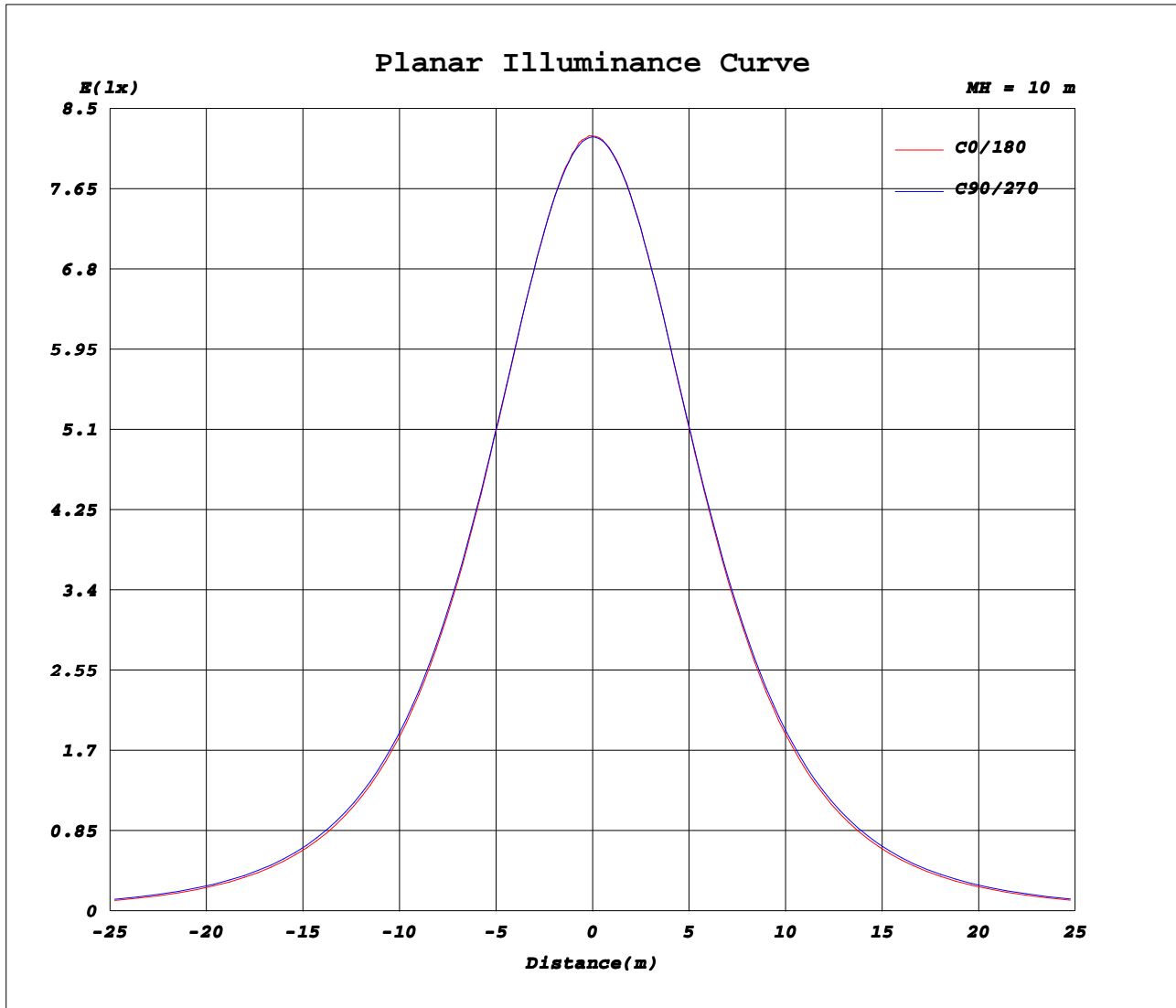
AvgL	cd/m2
L_0~180(65)av	6193
L_0~180(75)av	4728
L_0~180(85)av	797
L_90~270(65)av	6680
L_90~270(75)av	5830
L_90~270(85)av	3014
L_45(65)av	6424
L_45(75)av	5155
L_45(85)av	1616

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 19 October 2022

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: Z-DL-20eL

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 19 October 2022

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: Z-DL-20eL

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	821	821	822	824	821	819	820	822	822	823	822	824	821	821	822	824	821	819	820
5	816	817	817	819	817	814	816	818	819	819	819	820	818	819	818	820	818	815	817
10	804	806	805	805	804	802	803	805	805	807	807	808	807	807	808	810	808	805	806
15	785	784	785	783	785	785	784	787	787	787	788	789	787	787	789	791	789	786	787
20	757	757	757	756	757	758	757	760	759	760	761	762	762	762	763	765	763	761	762
25	721	723	723	725	724	724	724	727	727	728	727	728	727	728	731	731	731	728	729
30	680	681	682	685	684	685	685	687	687	687	686	687	687	687	691	692	692	690	690
35	633	634	635	639	638	640	640	642	642	641	639	640	640	641	645	646	648	645	646
40	580	581	583	587	587	590	590	592	591	590	587	587	587	588	593	595	598	596	596
45	522	524	525	530	531	534	534	536	534	533	530	530	530	532	537	540	543	542	542
50	461	462	464	469	471	474	475	476	474	472	468	468	470	471	476	480	483	483	483
55	395	396	399	404	406	411	412	412	409	407	404	403	403	406	412	415	419	419	420
60	327	329	331	335	340	344	345	346	343	339	335	335	336	338	344	349	353	353	354
65	257	259	261	268	271	278	278	278	274	271	266	265	266	268	275	279	285	286	287
70	187	189	191	198	203	211	210	210	205	201	195	195	196	198	205	210	217	219	220
75	118	120	123	130	139	144	147	151	138	133	127	125	126	129	136	140	149	153	155
80	53.7	55.4	58.9	65.3	70.2	78.3	84.1	80.5	72.9	68.5	62.8	60.1	60.5	63.1	69.9	76.0	82.1	87.8	92.5
85	6.08	6.53	7.44	11.9	15.3	20.4	22.5	21.9	17.1	13.5	9.53	8.04	7.81	8.99	12.5	18.1	23.7	27.4	30.1
90	2.79	3.45	2.83	2.98	3.01	3.49	4.71	4.20	2.91	2.82	2.80	2.92	1.98	2.64	2.02	2.06	2.14	2.23	3.46
95	3.24	3.76	3.83	4.45	4.98	6.41	7.71	7.13	5.00	4.15	3.72	3.35	2.45	2.94	3.26	3.66	3.88	4.52	6.65
100	3.71	4.24	4.09	5.13	7.35	8.35	8.67	8.03	6.62	5.10	4.44	4.04	3.03	3.27	3.34	3.76	5.91	7.44	7.18
105	4.27	4.60	4.91	6.51	7.78	8.62	8.93	8.56	7.26	5.68	5.15	4.65	3.56	3.70	3.83	5.40	6.85	7.84	7.63
110	4.81	5.05	5.44	6.87	8.04	8.66	8.90	8.58	7.52	6.21	5.59	5.11	4.03	4.16	4.50	5.83	7.05	7.92	7.70
115	5.45	5.49	5.68	7.08	8.22	8.78	8.89	8.54	7.57	5.98	5.65	5.67	4.63	4.73	4.92	6.13	7.17	7.92	7.79
120	6.01	6.13	5.58	6.16	8.17	8.91	8.89	8.54	7.49	6.01	5.98	6.21	5.19	5.33	4.71	6.35	7.23	7.93	7.79
125	5.86	6.11	6.20	6.38	8.21	8.79	8.71	8.45	7.66	6.09	6.30	6.72	5.50	5.87	5.07	5.67	7.34	7.91	7.80
130	6.31	7.15	6.51	6.69	7.23	8.87	8.77	8.55	6.86	6.41	6.84	7.02	5.74	6.34	5.38	5.53	6.57	8.01	7.89
135	6.76	7.17	7.66	7.00	7.22	7.33	7.40	7.34	7.17	7.15	7.31	7.20	5.91	6.30	6.42	5.85	6.06	6.19	6.56
140	7.19	7.94	7.96	8.11	7.36	7.51	7.62	7.51	7.35	7.87	7.82	7.92	6.41	7.20	7.01	7.14	6.20	6.36	6.50
145	7.59	7.86	7.53	8.35	8.80	7.73	8.02	7.79	8.27	7.84	7.61	8.11	6.98	7.20	6.68	7.60	7.71	6.72	6.96
150	7.98	7.86	8.36	8.01	9.03	8.92	8.81	9.13	8.71	7.90	7.94	7.89	7.13	7.11	7.30	7.32	8.51	8.20	8.18
155	8.23	8.24	8.91	8.39	8.36	8.75	8.69	8.59	8.32	8.73	8.75	8.25	7.65	7.64	7.98	7.61	7.87	7.97	8.01
160	8.62	8.58	8.65	8.61	8.69	8.83	8.67	8.62	8.81	8.96	8.85	8.75	8.34	8.22	8.09	8.09	8.16	8.06	8.01
165	9.04	8.94	8.89	8.86	8.84	9.03	9.23	9.33	9.04	9.04	8.89	9.03	8.80	8.69	8.45	8.40	8.38	8.47	8.77
170	9.01	9.00	9.02	9.05	9.17	9.39	9.46	9.45	9.36	9.13	9.05	9.06	8.77	8.76	8.74	8.75	8.83	9.05	9.14
175	9.09	9.10	9.15	9.21	9.30	9.34	9.36	9.35	9.31	9.24	9.22	9.17	9.00	9.01	9.04	9.08	9.14	9.17	9.20
180	9.15	9.15	9.19	9.22	9.18	9.17	9.17	9.18	9.20	9.22	9.21	9.18	9.17	9.15	9.17	9.19	9.17	9.16	9.16

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:OHS

Test Date:19 October 2022

 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: Z-DL-20eL

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.0949A P:20.25W PF:0.9703 Lamp Flux:2287.8x1 lm		
NAME: 6"다운라이트-20W	TYPE:LED	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:1
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	822	822	823	822	824														
5	819	818	818	818	819														
10	807	806	807	808	807														
15	787	787	786	787	787														
20	762	762	761	760	760														
25	729	727	726	725	726														
30	690	688	686	685	684														
35	645	642	640	638	636														
40	595	592	587	585	583														
45	540	536	531	529	526														
50	480	476	470	466	465														
55	416	412	405	401	399														
60	350	345	338	334	330														
65	281	277	268	264	260														
70	214	208	198	194	189														
75	149	142	131	125	121														
80	85.4	74.6	66.0	60.7	56.1														
85	24.7	18.6	12.8	8.57	6.42														
90	2.78	2.21	2.16	2.07	2.19														
95	5.58	4.04	3.31	3.02	2.61														
100	7.10	5.59	4.06	3.38	3.04														
105	7.58	6.13	4.86	3.94	3.45														
110	7.63	6.39	5.25	4.36	3.92														
115	7.63	6.58	5.30	4.48	4.50														
120	7.69	6.72	5.83	4.71	5.10														
125	7.78	6.87	5.14	4.95	5.17														
130	7.88	6.01	5.40	5.82	5.84														
135	6.16	6.00	6.00	6.41	6.17														
140	6.34	6.23	7.04	6.91	6.82														
145	6.73	7.48	7.10	6.75	7.12														
150	8.60	8.23	7.26	7.14	7.23														
155	8.12	7.64	7.92	7.85	7.60														
160	8.03	8.02	8.16	8.25	8.13														
165	8.88	8.45	8.44	8.41	8.55														
170	9.19	9.10	8.83	8.72	8.75														
175	9.24	9.20	9.10	9.01	9.01														
180	9.20	9.20	9.21	9.19	9.19														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:19 October 2022

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: Z-DL-20eL

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	820.9	821.2	822.3	823.6	820.7	818.9	820.2	821.9	822.1	822.6
3.0	820.3	819.6	820.5	821.8	819.2	816.3	818.3	820.9	820.2	821.6
6.0	815.3	814.5	815.3	816.6	814.6	812.4	813.9	816.7	816.4	817.0
9.0	808.1	807.1	808.0	808.9	807.1	805.1	806.4	809.0	809.3	810.3
12.0	797.0	796.5	797.9	797.9	797.0	795.2	796.6	799.2	799.1	801.1
15.0	784.9	784.5	784.8	783.4	785.1	785.3	783.7	786.6	787.4	786.6
18.0	768.7	768.8	769.2	768.2	769.1	769.9	769.3	771.2	771.5	772.2
21.0	749.9	750.4	751.0	750.3	751.6	752.3	751.1	753.5	753.2	755.3
24.0	729.4	729.8	730.5	729.9	731.3	732.1	731.2	733.7	733.0	734.9
27.0	707.2	706.5	707.1	709.0	708.5	709.5	709.1	711.7	712.9	711.7
30.0	680.3	681.2	682.2	685.2	684.3	685.5	684.6	686.6	687.4	686.8
33.0	652.7	653.6	654.5	658.1	657.2	659.5	658.3	660.4	660.2	660.8
36.0	623.0	623.9	624.8	628.8	628.1	630.5	629.7	632.3	631.2	630.5
39.0	591.3	591.9	593.9	597.6	597.6	600.2	599.8	601.8	600.9	600.7
42.0	557.9	558.4	560.4	564.3	564.3	567.7	567.9	570.0	568.9	567.7
45.0	522.3	523.6	525.3	530.0	531.2	533.9	534.4	535.6	534.0	533.2
48.0	486.6	487.1	488.4	493.8	495.3	499.1	499.1	500.6	499.7	497.6
51.0	448.2	448.8	451.1	456.3	458.1	461.8	462.4	463.2	461.1	459.5
54.0	408.6	409.9	411.9	417.3	419.4	423.5	424.6	425.1	422.1	420.6
57.0	368.5	369.8	371.9	376.3	380.0	384.3	385.4	386.2	382.7	380.7
60.0	327.2	328.7	330.7	335.1	339.7	343.9	345.1	345.7	342.5	339.4
63.0	287.4	287.2	289.4	294.1	298.9	303.7	304.6	305.1	301.3	298.4
66.0	243.4	245.3	247.0	253.9	257.8	265.1	264.3	264.9	259.9	257.3
69.0	201.0	203.2	205.1	213.0	216.8	225.1	223.8	224.1	219.5	215.0
72.0	158.6	161.1	163.2	170.8	177.0	183.8	184.8	184.5	178.0	173.5
75.0	118.2	120.0	123.1	129.8	139.2	144.0	146.8	151.2	137.5	133.0
78.0	78.59	80.46	83.87	90.18	98.29	103.8	112.4	108.5	98.51	93.32
81.0	41.81	43.44	46.96	53.38	58.04	65.51	69.90	68.93	60.45	56.39
84.0	11.78	12.55	14.65	20.37	24.67	31.04	34.28	32.69	26.82	22.47
87.0	3.266	3.892	3.353	3.678	4.138	5.210	6.901	6.107	4.492	3.935
90.0	2.789	3.451	2.826	2.981	3.007	3.487	4.706	4.204	2.915	2.818
93.0	3.043	3.236	3.326	4.343	4.591	5.693	7.216	6.513	4.491	3.933
96.0	3.318	3.706	3.844	4.541	5.184	7.020	7.678	7.357	5.189	4.282
99.0	3.597	4.106	4.062	4.763	7.055	8.256	8.527	7.846	6.372	4.813
102.0	3.981	4.369	4.340	5.814	7.552	8.413	8.816	8.334	6.919	5.331
105.0	4.271	4.602	4.912	6.507	7.776	8.617	8.933	8.562	7.259	5.680
108.0	4.582	4.913	5.242	6.754	7.938	8.664	8.891	8.585	7.412	6.006
111.0	4.935	5.132	5.535	6.921	8.068	8.664	8.878	8.566	7.543	6.224
114.0	5.329	5.392	5.828	7.111	8.175	8.743	8.877	8.547	7.566	6.361
117.0	5.693	5.741	5.480	6.236	8.231	8.863	8.933	8.580	7.590	5.596
120.0	6.009	6.131	5.577	6.161	8.171	8.909	8.887	8.542	7.488	6.012
123.0	5.912	6.138	5.824	7.027	8.171	8.780	8.715	8.376	7.603	6.107
126.0	5.921	6.298	6.311	6.298	8.213	8.840	8.714	8.497	7.710	6.205
129.0	6.209	7.047	6.455	6.647	7.419	8.849	8.743	8.529	6.987	6.395
132.0	6.501	7.166	6.993	6.773	6.976	7.983	8.637	7.593	7.027	6.709
135.0	6.761	7.170	7.658	7.004	7.218	7.330	7.401	7.335	7.172	7.149
138.0	7.036	7.614	7.956	7.610	7.241	7.571	7.654	7.552	7.237	7.911
141.0	7.286	8.074	7.714	8.176	7.404	7.553	7.595	7.576	7.344	7.925
144.0	7.524	7.965	7.497	8.398	8.482	7.693	7.984	7.651	8.165	7.901
147.0	7.705	7.720	7.668	8.036	9.030	8.771	8.671	8.910	8.611	7.976
150.0	7.979	7.861	8.360	8.008	9.027	8.915	8.812	9.128	8.706	7.902
153.0	8.179	8.106	8.779	8.214	8.478	8.733	8.901	8.575	8.394	8.311
156.0	8.282	8.297	8.905	8.459	8.417	8.746	8.729	8.524	8.411	8.817
159.0	8.509	8.492	8.668	8.585	8.635	8.757	8.608	8.544	8.722	8.942
162.0	8.812	8.790	8.719	8.696	8.724	8.835	8.752	8.768	8.895	9.003
165.0	9.045	8.943	8.886	8.864	8.840	9.032	9.230	9.330	9.040	9.040
168.0	9.007	8.985	8.989	8.970	9.054	9.273	9.450	9.403	9.262	9.055
171.0	9.026	9.012	9.044	9.096	9.235	9.407	9.458	9.449	9.397	9.180
174.0	9.068	9.087	9.124	9.193	9.300	9.379	9.384	9.398	9.352	9.240
177.0	9.133	9.142	9.179	9.235	9.254	9.258	9.254	9.258	9.231	9.235
180.0	9.152	9.147	9.189	9.217	9.179	9.170	9.170	9.179	9.198	9.221
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	822.3	823.7	820.9	821.2	822.3	823.6	820.7	818.9	820.2	821.9
3.0	821.2	822.3	820.1	820.5	820.9	822.0	819.8	817.3	819.2	820.4
6.0	816.7	817.9	815.4	816.8	817.4	818.6	816.3	813.6	815.2	816.6
9.0	810.2	811.7	809.1	810.2	810.7	812.4	810.4	807.2	808.6	808.9
12.0	800.1	801.1	799.4	799.6	801.3	803.5	801.2	797.2	798.6	800.1
15.0	787.6	789.0	786.8	787.2	789.4	790.9	789.4	786.3	786.9	787.4
18.0	772.4	773.6	773.6	772.7	774.9	776.2	774.8	771.4	772.8	773.0
21.0	754.3	755.6	755.1	756.0	757.3	758.9	757.4	754.2	755.3	755.7
24.0	733.9	735.2	733.7	735.0	737.7	738.2	738.2	735.1	735.8	736.2
27.0	711.3	712.4	711.7	712.4	715.8	716.1	716.6	713.5	713.8	714.3
30.0	685.8	687.2	686.7	687.1	691.2	691.5	692.5	689.6	690.4	689.8

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: OHS

Test Date: 19 October 2022

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: Z-DL-20eL

Photometric Data Table [cd]

33.0	658.1	659.1	659.0	660.0	663.8	663.6	666.4	664.0	664.7	663.8
36.0	628.9	629.7	629.0	630.5	634.9	636.5	636.5	636.0	636.5	635.0
39.0	597.5	598.0	598.7	599.6	603.7	606.2	608.2	606.4	606.6	604.9
42.0	564.6	565.1	564.6	566.5	571.7	572.4	576.4	575.1	575.4	573.2
45.0	530.0	530.2	529.8	532.2	536.8	540.1	542.8	541.6	541.8	539.7
48.0	493.5	493.8	493.6	496.2	501.2	504.4	507.3	506.6	506.9	504.1
51.0	456.0	455.7	456.5	458.5	463.8	466.7	470.8	470.0	471.0	467.5
54.0	416.8	416.4	417.6	419.3	424.9	428.8	432.6	432.3	433.2	429.0
57.0	376.8	376.1	376.8	379.3	385.0	388.3	393.2	393.4	394.5	390.0
60.0	335.4	335.0	335.9	338.4	344.1	348.6	353.4	353.5	354.2	349.6
63.0	293.7	293.2	294.2	296.6	302.9	308.0	312.3	313.0	313.4	308.7
66.0	251.4	251.0	252.1	254.2	261.3	264.9	271.6	274.2	273.2	268.1
69.0	209.4	208.7	209.8	212.0	219.1	223.5	230.5	233.7	233.2	227.3
72.0	167.4	166.6	167.8	169.8	177.1	181.7	191.0	191.0	193.4	189.1
75.0	127.0	125.3	126.5	128.9	135.6	140.4	148.8	152.5	155.0	149.4
78.0	87.93	85.53	86.18	88.82	95.48	101.2	108.5	117.2	121.8	110.5
81.0	50.68	47.81	48.12	50.55	57.38	65.00	69.37	76.20	77.29	71.75
84.0	17.55	15.37	15.26	16.94	21.97	27.68	33.93	37.86	40.85	35.79
87.0	3.594	3.626	2.851	3.504	3.356	5.241	7.535	9.422	10.09	7.584
90.0	2.798	2.924	1.981	2.644	2.022	2.061	2.143	2.234	3.464	2.782
93.0	3.371	3.090	2.212	2.232	2.193	3.051	2.582	3.431	5.117	4.552
96.0	3.865	3.483	2.567	2.901	3.142	3.529	4.041	4.800	6.722	5.932
99.0	4.267	3.906	2.906	3.146	3.268	3.630	5.171	7.046	7.062	6.953
102.0	4.837	4.332	3.236	3.448	3.421	4.451	6.577	7.636	7.409	7.333
105.0	5.153	4.653	3.561	3.703	3.833	5.397	6.852	7.841	7.627	7.580
108.0	5.368	4.901	3.804	4.001	4.291	5.678	6.981	7.911	7.650	7.632
111.0	5.679	5.230	4.148	4.271	4.598	5.893	7.070	7.920	7.748	7.609
114.0	5.778	5.550	4.514	4.605	4.871	6.055	7.144	7.906	7.776	7.627
117.0	5.712	5.918	4.849	4.964	4.629	6.233	7.199	7.938	7.804	7.678
120.0	5.982	6.211	5.188	5.325	4.713	6.349	7.227	7.934	7.794	7.692
123.0	6.191	6.536	5.410	5.660	4.909	6.418	7.279	7.920	7.794	7.720
126.0	6.366	6.796	5.555	5.986	5.155	5.441	7.385	7.938	7.850	7.836
129.0	6.655	6.982	5.754	6.287	5.341	5.451	7.458	7.994	7.906	7.883
132.0	7.041	7.088	5.740	6.275	5.667	5.624	5.880	8.004	7.956	7.093
135.0	7.315	7.195	5.909	6.301	6.420	5.851	6.056	6.189	6.556	6.158
138.0	7.747	7.563	6.145	6.770	6.815	6.153	6.038	6.390	6.447	6.395
141.0	7.804	8.066	6.559	7.301	6.962	7.208	6.289	6.349	6.433	6.390
144.0	7.684	8.207	6.926	7.306	6.670	7.468	7.200	6.599	6.810	6.636
147.0	7.678	7.914	7.046	7.023	6.800	7.216	8.199	7.600	7.549	7.988
150.0	7.943	7.888	7.126	7.105	7.297	7.325	8.507	8.203	8.185	8.597
153.0	8.482	8.097	7.424	7.441	7.795	7.380	7.864	8.439	8.374	8.334
156.0	8.839	8.321	7.768	7.743	8.046	7.719	7.869	8.035	8.069	8.124
159.0	8.915	8.632	8.223	8.104	8.045	8.026	8.088	7.976	7.916	7.952
162.0	8.771	8.882	8.688	8.471	8.232	8.231	8.264	8.171	8.153	8.184
165.0	8.886	9.026	8.803	8.691	8.445	8.403	8.385	8.473	8.771	8.877
168.0	8.989	9.035	8.761	8.705	8.627	8.621	8.628	8.789	9.054	9.049
171.0	9.086	9.077	8.794	8.802	8.799	8.835	8.905	9.128	9.193	9.258
174.0	9.175	9.152	8.943	8.956	8.989	9.026	9.124	9.175	9.230	9.282
177.0	9.207	9.189	9.101	9.105	9.142	9.133	9.124	9.119	9.142	9.180
180.0	9.207	9.184	9.165	9.152	9.175	9.189	9.175	9.156	9.156	9.203
G/C	300.0	315.0	330.0	345.0						
0.0	822.1	822.6	822.3	823.7						
3.0	820.8	820.6	820.6	822.0						
6.0	817.6	816.7	817.1	818.1						
9.0	809.4	809.6	809.6	810.6						
12.0	800.9	798.9	799.7	800.0						
15.0	787.2	786.1	786.6	787.5						
18.0	771.6	772.4	771.4	772.0						
21.0	755.2	754.2	752.9	753.9						
24.0	734.4	733.3	732.8	732.6						
27.0	711.9	711.2	710.8	709.5						
30.0	687.8	686.2	684.5	683.7						
33.0	662.0	659.3	656.2	656.1						
36.0	634.4	629.1	627.8	626.4						
39.0	602.5	598.3	597.1	594.4						
42.0	569.7	565.9	562.6	560.6						
45.0	535.8	530.9	529.2	525.8						
48.0	499.7	494.7	491.4	489.5						
51.0	462.9	456.9	453.9	451.4						
54.0	424.4	418.2	415.0	412.1						
57.0	384.6	378.8	374.8	372.1						
60.0	345.1	337.6	333.5	330.4						
63.0	303.4	296.0	292.1	288.4						
66.0	263.0	254.5	250.4	246.3						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: OHS

Test Date: 19 October 2022

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]

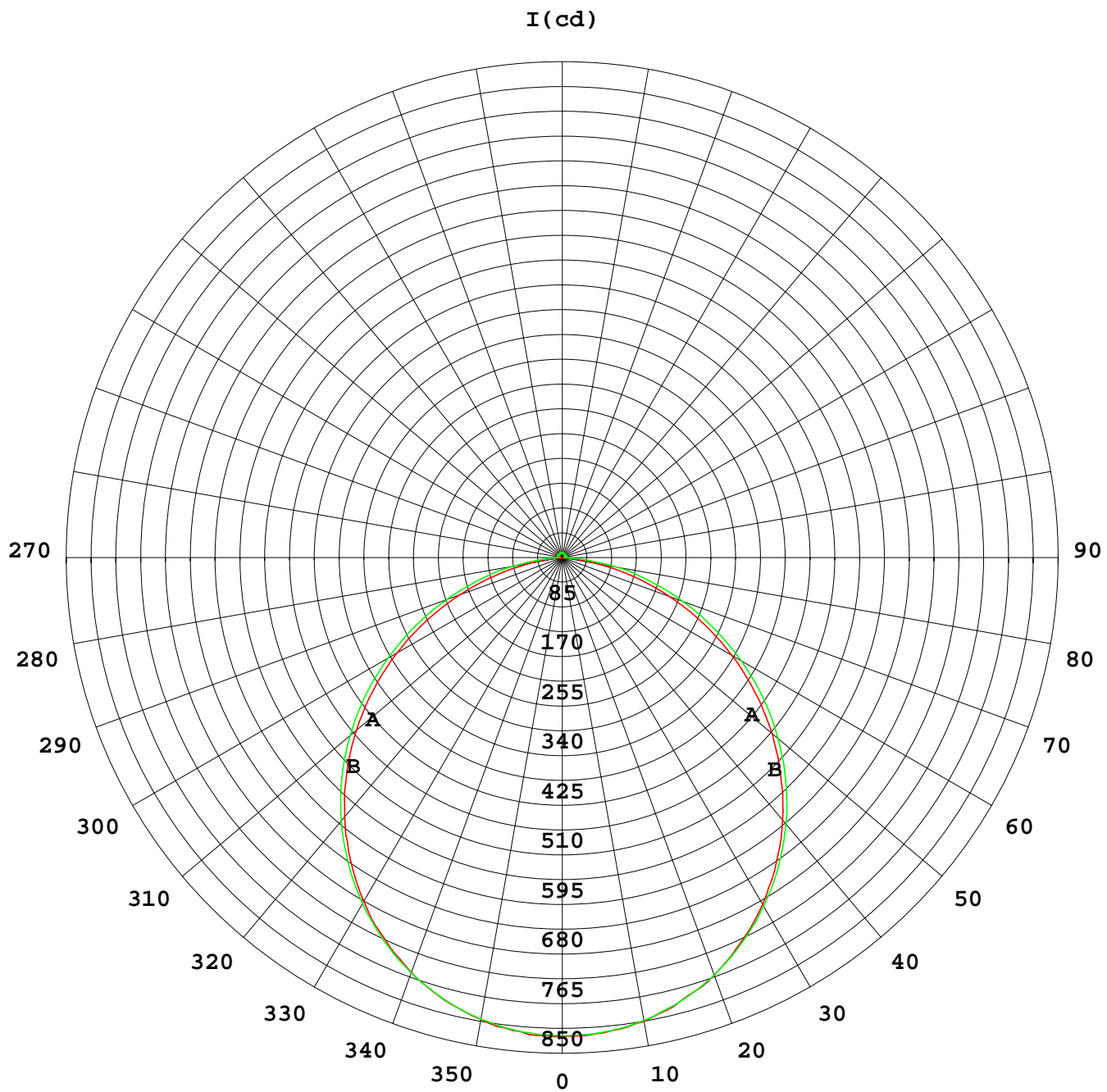
Remarks: Z-DL-20eL

Photometric Data Table [cd]

69.0	221.7	212.7	208.2	203.8
72.0	180.6	170.7	166.3	161.5
75.0	141.8	130.5	125.2	121.0
78.0	103.6	91.19	85.55	81.14
81.0	62.43	54.16	48.85	44.10
84.0	27.90	21.45	16.43	13.01
87.0	5.240	3.975	2.923	2.841
90.0	2.207	2.158	2.074	2.195
93.0	3.079	3.035	2.422	2.442
96.0	4.194	3.484	3.037	2.654
99.0	5.350	3.857	3.314	2.937
102.0	5.885	4.510	3.701	3.247
105.0	6.131	4.861	3.937	3.453
108.0	6.303	5.094	4.179	3.666
111.0	6.437	5.321	4.463	4.034
114.0	6.558	5.141	4.731	4.383
117.0	6.642	5.687	4.453	4.740
120.0	6.716	5.828	4.713	5.102
123.0	6.800	5.373	4.857	5.182
126.0	6.879	5.210	5.073	5.196
129.0	6.157	5.405	5.676	5.670
132.0	5.811	5.549	6.135	6.056
135.0	6.005	5.995	6.411	6.166
138.0	6.033	6.950	6.802	6.533
141.0	6.318	7.115	6.860	6.956
144.0	7.267	7.445	6.795	7.167
147.0	7.850	7.259	6.842	7.014
150.0	8.227	7.260	7.144	7.232
153.0	7.812	7.617	7.615	7.459
156.0	7.674	8.017	7.990	7.663
159.0	7.940	8.134	8.259	7.989
162.0	8.176	8.208	8.231	8.333
165.0	8.446	8.440	8.414	8.546
168.0	8.861	8.649	8.613	8.659
171.0	9.156	8.918	8.780	8.798
174.0	9.189	9.082	8.966	8.947
177.0	9.175	9.133	9.096	9.109
180.0	9.198	9.207	9.189	9.193

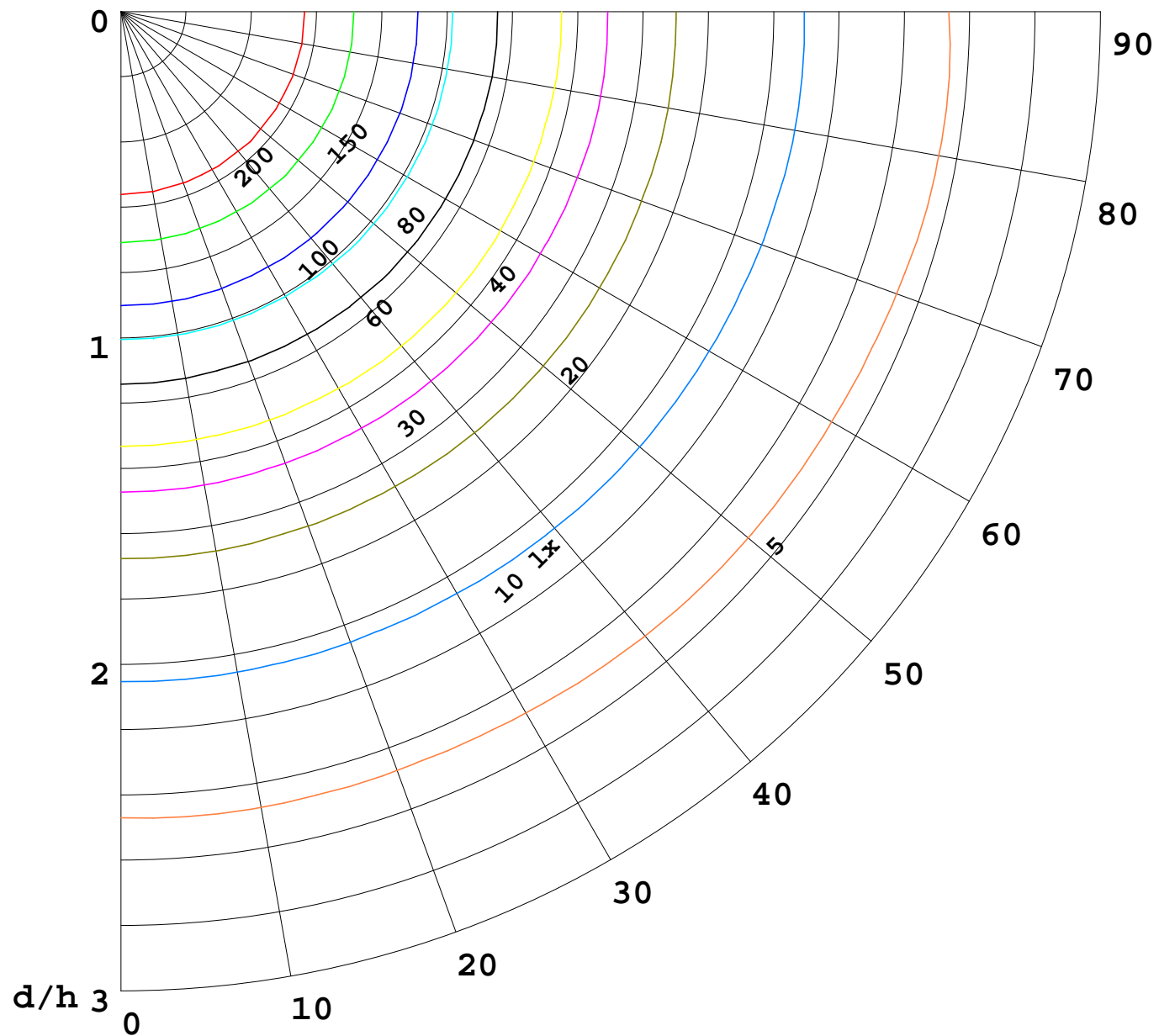
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 19 October 2022

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: Z-DL-20eL



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

