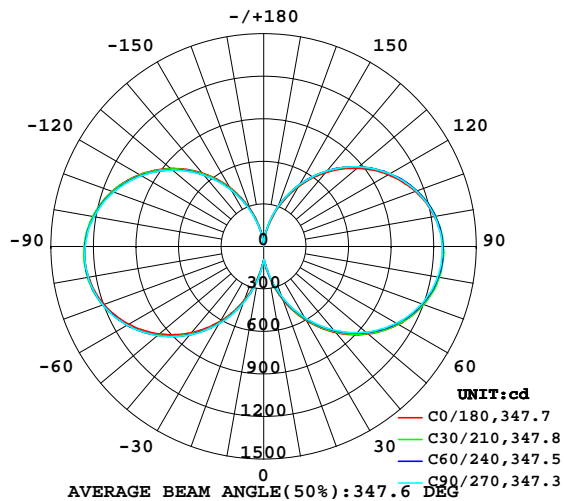
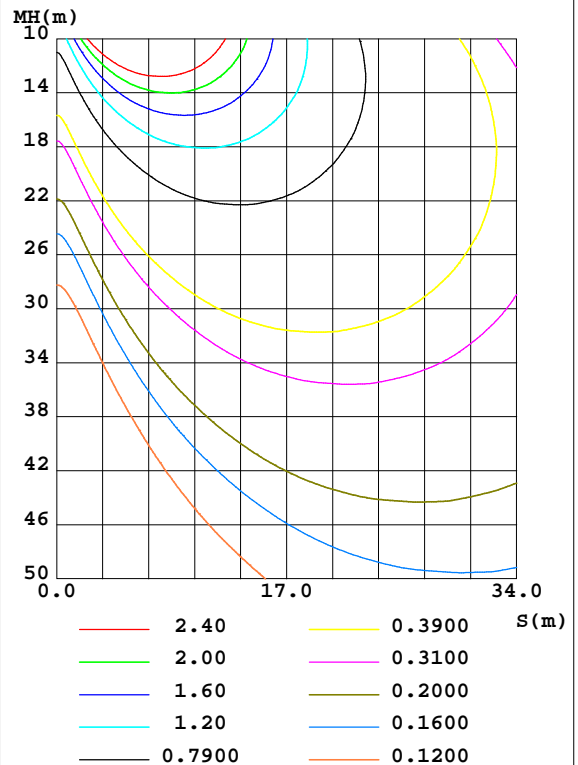


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.44 lm/W			
MODEL	OB200	Imax(cd)	1271	S/MH(C0/180)	5.06
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	5.06
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11943	η UP,DN(C0-180)	24.2,25.8
NOMINAL FLUX(lm)	11942.8	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	23.8,26.2
LAMPS INSIDE	1	η up(%)	48.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	220	η down(%)	52.0	CIBSE SHR MAX	1.75

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:25 April 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: OB200-80W-57K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	208.1	191.7	187.0	193.6	209.7	225.3	228.8	223.5	0- 10	15.10	15.10	0.13,0.13
20	402.1	384.1	376.4	384.8	402.4	421.4	426.2	419.6	10- 20	88.86	104.0	0.87,0.87
30	603.1	587.3	579.8	586.4	604.9	623.5	627.5	621.7	20- 30	236.1	340.1	2.85,2.85
40	794.9	778.0	769.7	776.8	792.9	810.4	814.3	808.8	30- 40	442.5	782.6	6.55,6.55
50	960.0	948.4	940.5	946.5	960.3	975.3	978.0	973.6	40- 50	682.6	1465	12.3,12.3
60	1099	1089	1082	1087	1098	1110	1111	1108	50- 60	927.1	2392	20,20
70	1198	1193	1186	1190	1198	1205	1207	1205	60- 70	1143	3536	29.6,29.6
80	1253	1253	1246	1248	1254	1259	1257	1257	70- 80	1301	4837	40.5,40.5
90	1262	1264	1260	1258	1261	1261	1259	1261	80- 90	1376	6213	52,52
100	1223	1228	1224	1224	1222	1218	1215	1218	90-100	1359	7571	63.4,63.4
110	1140	1148	1146	1141	1138	1128	1127	1131	100-110	1252	8823	73.9,73.9
120	1015	1027	1027	1021	1013	1000	997.6	1004	110-120	1071	9894	82.8,82.8
130	858.4	874.5	873.9	866.3	857.2	843.0	839.3	845.8	120-130	842.6	10737	89.9,89.9
140	679.3	696.0	697.3	689.9	678.2	661.2	657.4	664.0	130-140	597.8	11335	94.9,94.9
150	484.2	502.3	503.5	495.0	482.4	464.3	460.1	467.8	140-150	367.6	11702	98,98
160	282.5	300.6	302.3	295.5	281.5	263.2	258.8	265.7	150-160	179.5	11882	99.5,99.5
170	101.2	114.7	116.1	111.0	98.99	86.37	81.89	87.90	160-170	55.78	11937	100,100
180	18.23	18.21	18.16	18.10	18.25	18.21	18.15	18.11	170-180	5.322	11943	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1092.9 lm

%lum = 9.2%

%lamp = 9.2%

Conical surface Flux(120deg): 2392.3 lm

%lum = 20.0%

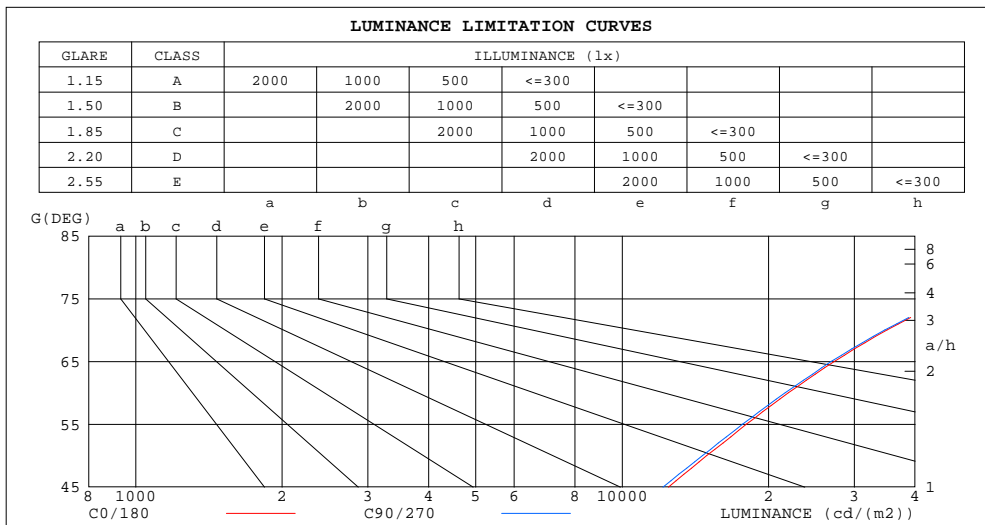
%lamp = 20.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:OHS
 Test Date:25 April 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: OB200-80W-57K

LUMINANCE LIMITATION CURVES

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:



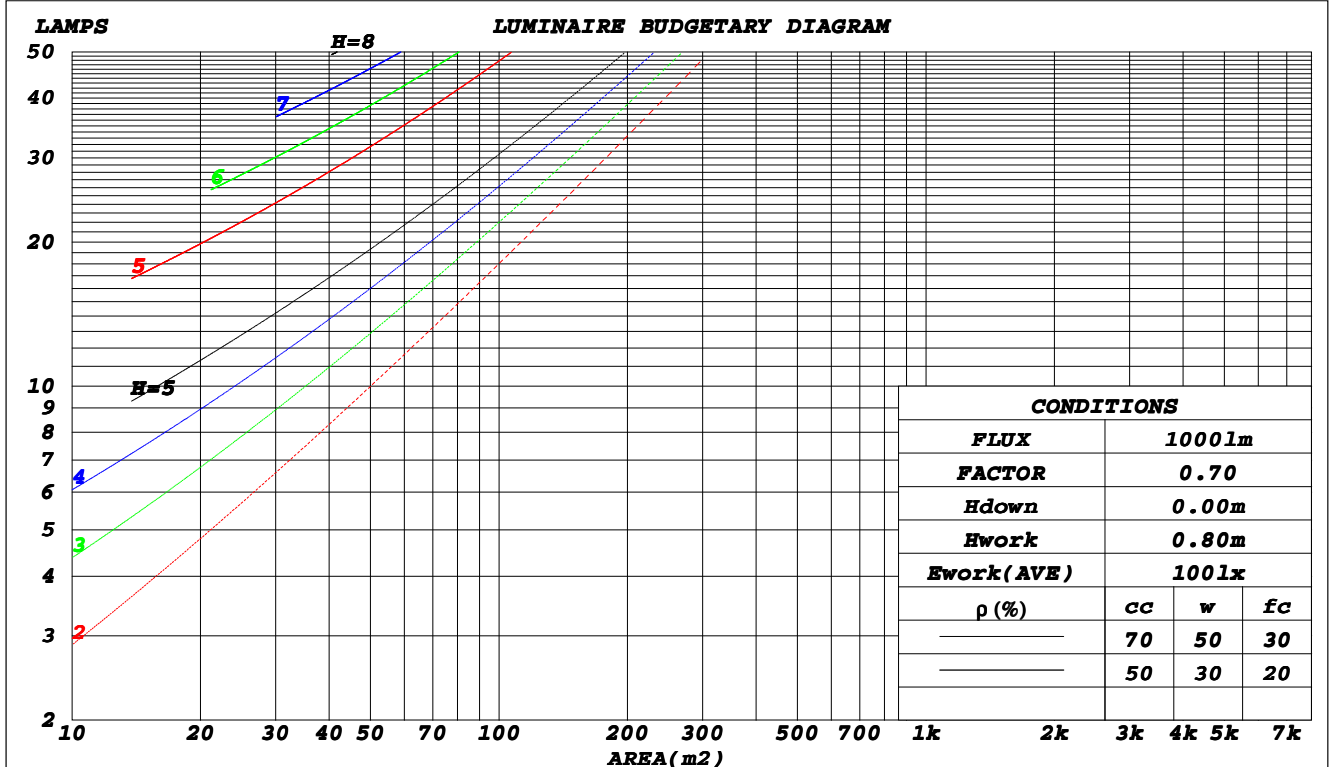
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:25 April 2022

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: OB200-80W-57K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
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	1.08	1.08	1.08	.00	.00	.00	.84	.84	.84	.71	.71	.71	.58	.58	.58	.52
1.0	.85	.79	.74	.78	.73	.68	.65	.61	.57	.53	.50	.47	.42	.39	.37	.32
2.0	.71	.63	.56	.65	.58	.51	.54	.48	.43	.43	.39	.35	.33	.30	.27	.22
3.0	.61	.51	.44	.55	.47	.40	.46	.39	.33	.36	.31	.27	.28	.24	.20	.16
4.0	.53	.43	.35	.48	.39	.32	.39	.32	.27	.31	.26	.21	.24	.19	.16	.12
5.0	.46	.36	.29	.42	.33	.27	.34	.27	.22	.27	.22	.17	.21	.16	.13	.09
6.0	.41	.31	.24	.37	.29	.22	.30	.24	.18	.24	.19	.14	.18	.14	.11	.07
7.0	.36	.27	.21	.33	.25	.19	.27	.20	.16	.22	.16	.12	.17	.12	.09	.06
8.0	.33	.24	.18	.30	.22	.16	.25	.18	.13	.20	.14	.10	.15	.11	.08	.05
9.0	.30	.21	.15	.27	.19	.14	.22	.16	.12	.18	.13	.09	.14	.10	.07	.04
10.0	.27	.19	.14	.25	.17	.12	.20	.14	.10	.16	.11	.08	.13	.09	.06	.04



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:OHS
 Test Date:25 April 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: OB200-80W-57K

WEC AND CCEC

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
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	.443	.252	.080	.421	.240	.076	.380	.218	.070	.342	.197	.063	.307	.178	.057		
2.0	.364	.200	.061	.344	.190	.058	.307	.171	.053	.272	.153	.048	.240	.136	.043		
3.0	.315	.167	.050	.296	.159	.048	.262	.142	.043	.230	.126	.039	.201	.111	.034		
4.0	.278	.145	.042	.261	.137	.040	.230	.122	.036	.201	.108	.032	.173	.094	.029		
5.0	.250	.127	.037	.234	.120	.035	.205	.107	.031	.178	.094	.028	.153	.082	.025		
6.0	.226	.114	.032	.212	.107	.031	.186	.095	.028	.161	.084	.025	.137	.072	.021		
7.0	.207	.102	.029	.194	.097	.028	.170	.086	.025	.146	.075	.022	.125	.065	.019		
8.0	.191	.093	.026	.179	.088	.025	.156	.078	.022	.135	.068	.020	.114	.059	.017		
9.0	.177	.086	.024	.166	.081	.023	.145	.072	.020	.125	.062	.018	.106	.054	.015		
10.0	.165	.079	.022	.155	.075	.021	.135	.066	.019	.116	.058	.016	.098	.049	.014		

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	.556	.556	.556	.475	.475	.475	.324	.324	.324	.186	.186	.186	.060	.060	.060	
1.0	.558	.524	.492	.478	.449	.424	.327	.309	.293	.188	.179	.170	.060	.058	.055	
2.0	.553	.503	.460	.474	.433	.398	.325	.299	.278	.187	.174	.163	.060	.056	.053	
3.0	.546	.488	.441	.468	.421	.382	.321	.292	.268	.186	.171	.158	.060	.055	.052	
4.0	.539	.476	.429	.462	.412	.372	.318	.287	.262	.184	.168	.155	.059	.055	.051	
5.0	.531	.467	.420	.456	.404	.366	.314	.282	.258	.182	.166	.153	.059	.054	.050	
6.0	.524	.460	.414	.450	.398	.361	.311	.279	.255	.180	.164	.152	.058	.054	.050	
7.0	.517	.454	.410	.444	.394	.357	.307	.276	.253	.178	.163	.151	.058	.053	.050	
8.0	.510	.449	.407	.439	.389	.355	.304	.273	.252	.177	.161	.150	.057	.053	.050	
9.0	.504	.444	.404	.434	.386	.353	.301	.271	.250	.175	.160	.149	.057	.053	.049	
10.0	.498	.440	.402	.429	.382	.351	.298	.269	.249	.174	.159	.149	.056	.052	.049	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 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: OB200-80W-57K

UGR(Unified Glare Rating) Table

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm										
NAME: OB200-80W-57K					TYPE:LED			WEIGHT:		
SPEC.:57K					DIM.:			SERIAL No.:002RD		
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	20.1	21.3	21.0	22.2	23.3	20.0	21.2	20.9	22.1	23.2
3H	23.8	24.8	24.7	25.7	26.9	23.7	24.8	24.6	25.7	26.8
4H	25.8	26.8	26.7	27.7	28.9	25.7	26.7	26.6	27.7	28.8
6H	28.0	29.0	28.9	29.9	31.1	28.0	28.9	28.9	29.8	31.0
8H	29.2	30.1	30.1	31.1	32.3	29.2	30.1	30.1	31.0	32.2
12H	30.6	31.5	31.5	32.4	33.6	30.5	31.4	31.5	32.4	33.6
4H 2H	21.3	22.3	22.2	23.2	24.4	21.2	22.2	22.1	23.1	24.3
3H	25.0	25.9	25.9	26.8	28.0	24.9	25.8	25.8	26.7	28.0
4H	27.1	27.9	28.0	28.9	30.1	27.1	27.8	28.0	28.8	30.0
6H	29.5	30.2	30.4	31.1	32.4	29.4	30.1	30.3	31.1	32.3
8H	30.7	31.4	31.7	32.4	33.7	30.7	31.4	31.6	32.3	33.6
12H	32.2	32.8	33.2	33.8	35.1	32.1	32.8	33.1	33.8	35.0
8H 4H	27.9	28.6	28.8	29.5	30.8	27.8	28.5	28.8	29.5	30.8
6H	30.5	31.0	31.5	32.0	33.3	30.4	31.0	31.4	32.0	33.3
8H	31.9	32.5	32.9	33.5	34.8	31.9	32.4	32.9	33.4	34.7
12H	33.6	34.1	34.6	35.1	36.4	33.6	34.0	34.6	35.0	36.4
12H 4H	28.1	28.7	29.1	29.7	31.0	28.1	28.7	29.0	29.7	31.0
6H	30.8	31.3	31.8	32.3	33.6	30.8	31.3	31.7	32.3	33.6
8H	32.4	32.8	33.4	33.9	35.2	32.3	32.8	33.3	33.8	35.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 11943 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.6)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:25 April 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: OB200-80W-57K

UTILIZATION FACTORS TABLE

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:

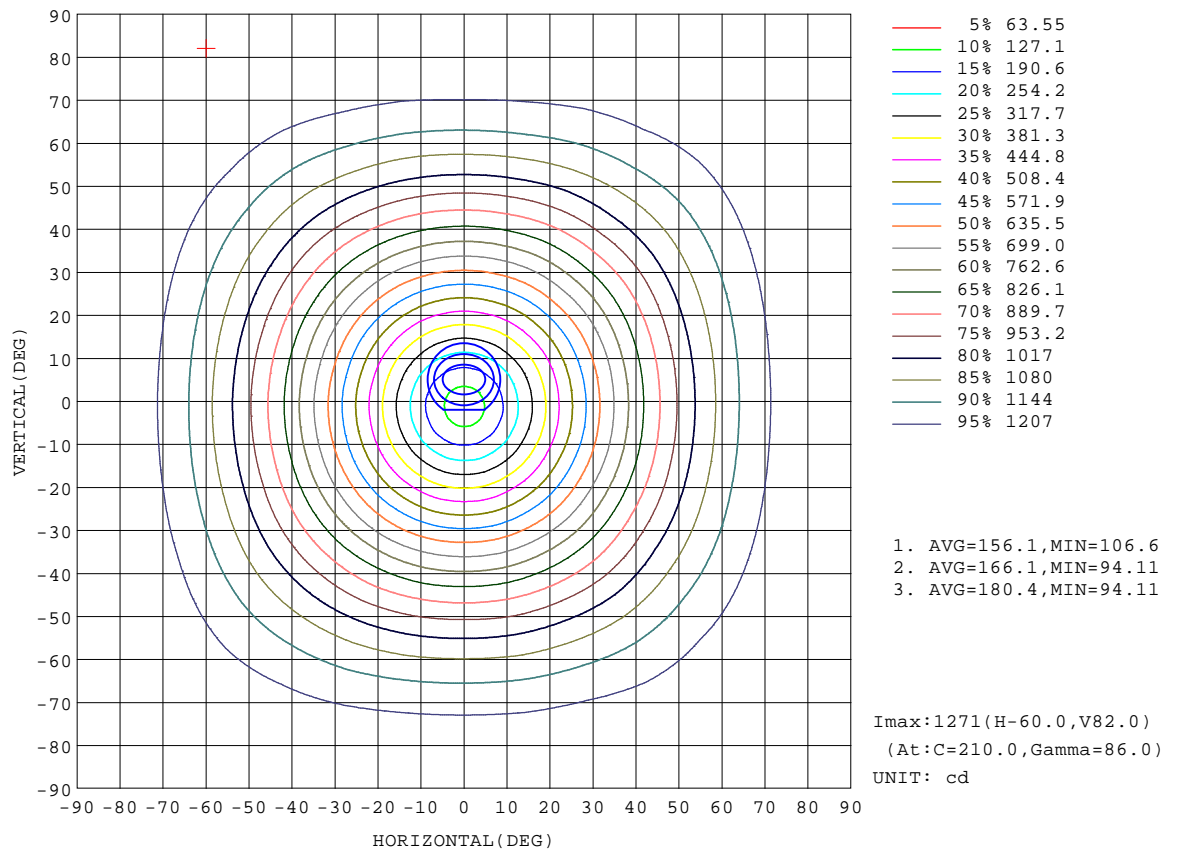
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	34	21	13	32	20	13	29	18	12	4
0.80	42	28	19	40	26	18	35	24	16	7
1.00	49	34	25	46	33	24	40	31	21	10
1.25	56	41	31	52	39	30	45	34	26	13
1.50	62	47	37	57	44	35	49	38	30	15
2.00	70	56	46	64	52	43	55	45	37	20
2.50	75	62	52	69	58	49	59	50	42	23
3.00	79	67	58	73	63	54	62	54	47	25
4.00	85	74	66	78	69	61	66	59	53	29
5.00	88	79	72	81	74	67	69	63	57	32
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:25 April 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: OB200-80W-57K

ISOCANDELA DIAGRAM

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:

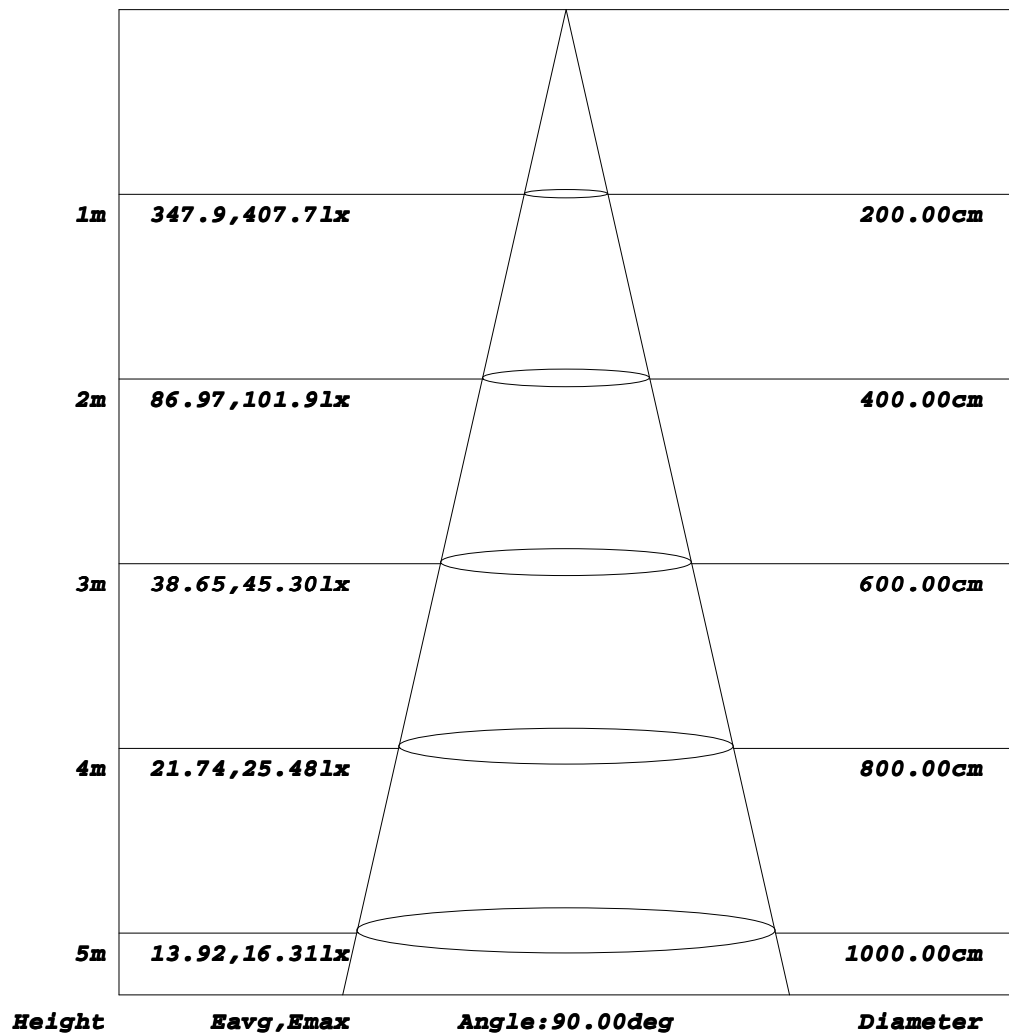


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:25 April 2022

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: OB200-80W-57K

AAI Figure

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Flux out:1093 lm


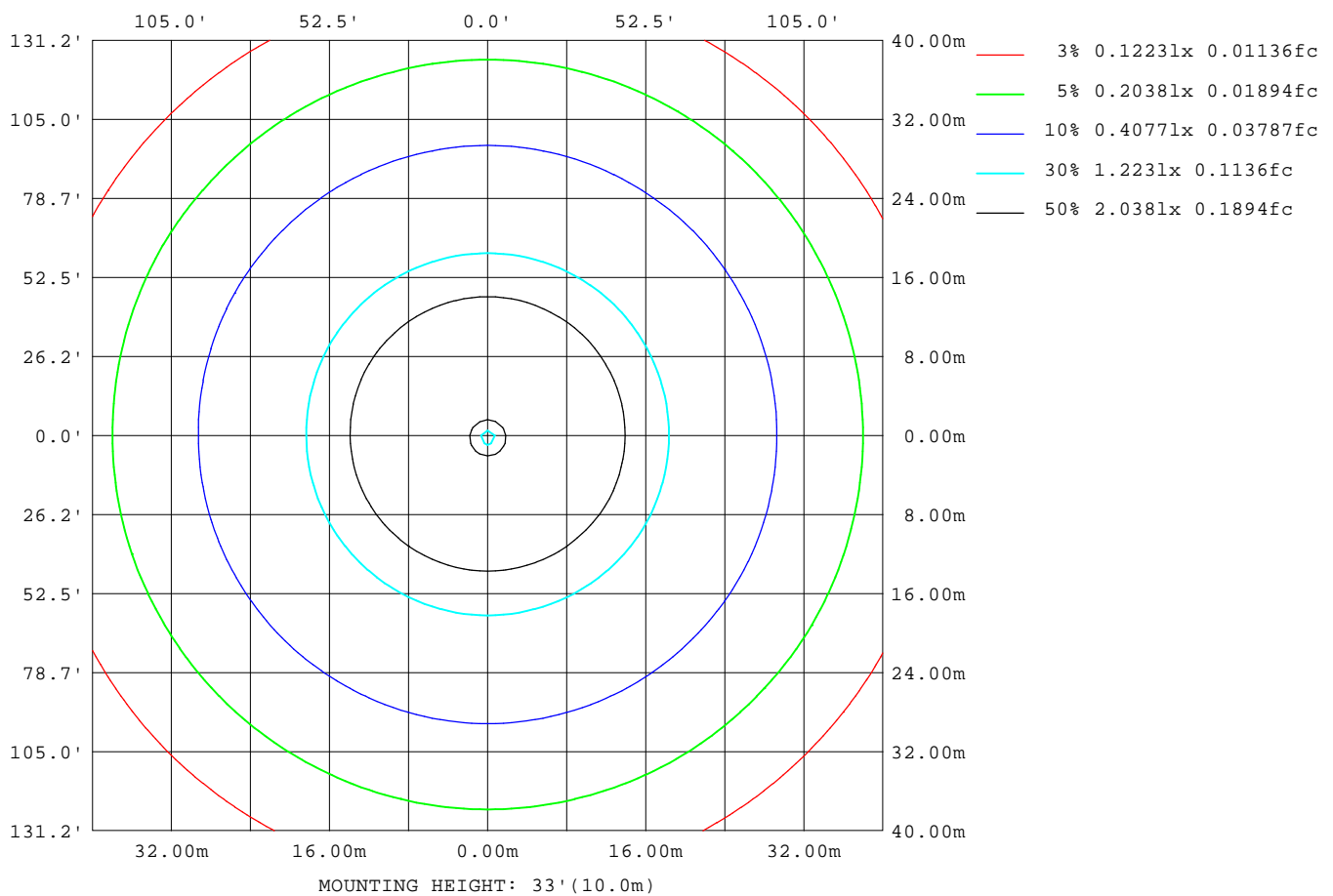
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 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: OB200-80W-57K

ISOLUX DIAGRAM

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 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: OB200-80W-57K

LED Avg.L Report

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:

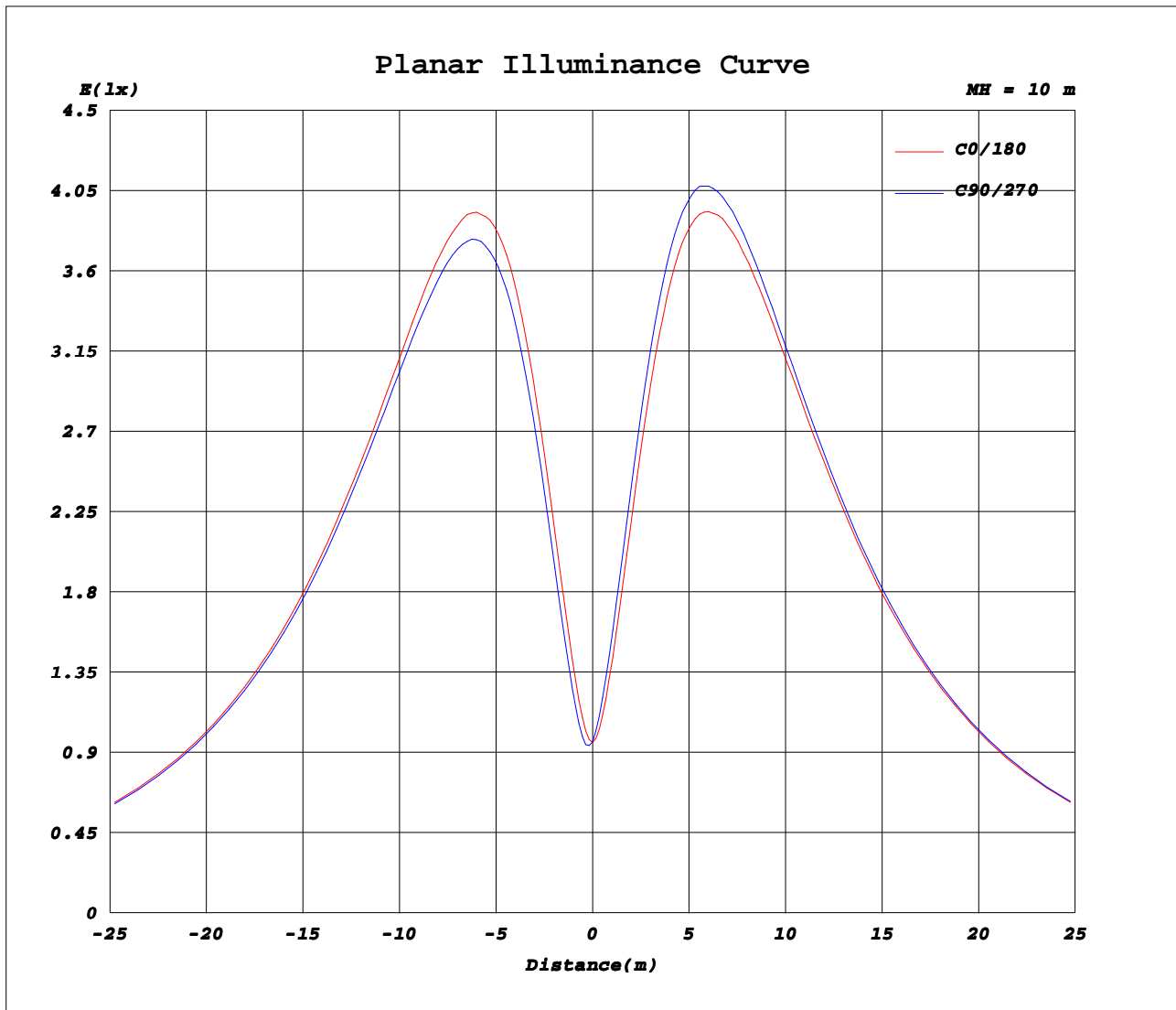
AvgL	cd/m2
L_0~180(65)av	27292
L_0~180(75)av	47610
L_0~180(85)av	145107
L_90~270(65)av	27259
L_90~270(75)av	47515
L_90~270(85)av	144780
L_45(65)av	27293
L_45(75)av	47593
L_45(85)av	145043

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:25 April 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: OB200-80W-57K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 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: OB200-80W-57K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm																		
NAME: OB200-80W-57K									TYPE:LED					WEIGHT:				
SPEC.:57K									DIM.:					SERIAL No.:002RD				
MFR.: ICEPIPE									SUR.:					Shielding Angle:				

Table--1

UNIT: cd

<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	95.7	95.8	95.7	96.0	95.8	96.2	96.1	96.5	96.3	96.7	96.7	96.8	95.7	95.8	95.7	96.0	95.8	96.2	96.1
5	132	127	124	120	118	116	117	117	120	122	127	130	134	138	141	144	145	148	146
10	208	201	198	192	190	186	187	187	191	194	201	205	210	217	220	225	227	230	229
15	301	294	290	284	281	277	278	277	282	285	292	298	303	310	315	320	323	325	325
20	402	395	391	384	381	376	376	377	380	385	392	398	402	412	416	421	424	427	426
25	504	497	494	486	482	478	478	478	483	487	493	500	505	514	519	523	525	528	528
30	603	598	595	587	584	578	580	579	583	586	594	600	605	614	618	623	626	628	627
35	701	697	694	685	681	676	677	676	680	684	691	698	701	711	716	720	722	723	723
40	795	790	786	778	776	769	770	770	774	777	782	791	793	803	807	810	813	815	814
45	880	876	875	866	863	859	858	858	860	864	870	877	879	889	894	896	897	897	899
50	960	958	956	948	945	940	940	939	941	946	950	958	960	969	974	975	976	977	978
55	1033	1032	1032	1022	1020	1015	1014	1014	1015	1019	1025	1032	1034	1041	1047	1047	1049	1048	1049
60	1099	1097	1097	1089	1087	1081	1082	1080	1081	1087	1089	1098	1098	1106	1110	1110	1112	1109	1111
65	1154	1153	1154	1147	1144	1138	1138	1137	1137	1142	1145	1151	1152	1160	1164	1163	1163	1163	1166
70	1198	1198	1200	1193	1190	1184	1186	1185	1184	1190	1191	1198	1198	1204	1209	1205	1207	1204	1207
75	1234	1234	1236	1229	1227	1222	1222	1221	1219	1224	1225	1232	1231	1238	1243	1238	1239	1235	1238
80	1253	1257	1258	1253	1251	1246	1246	1246	1244	1248	1248	1254	1254	1259	1262	1259	1258	1256	1257
85	1265	1267	1269	1265	1265	1259	1258	1257	1256	1261	1259	1263	1264	1267	1271	1266	1264	1263	1266
90	1262	1265	1267	1264	1264	1260	1260	1258	1254	1258	1257	1261	1261	1264	1267	1261	1261	1256	1259
95	1249	1253	1256	1252	1253	1248	1248	1246	1243	1247	1245	1249	1248	1249	1253	1245	1246	1240	1243
100	1223	1229	1233	1228	1229	1226	1224	1225	1220	1224	1221	1224	1222	1223	1224	1218	1216	1211	1215
105	1186	1192	1196	1196	1196	1192	1191	1192	1186	1187	1186	1187	1184	1185	1186	1178	1178	1172	1177
110	1140	1145	1149	1148	1149	1147	1146	1144	1139	1141	1138	1139	1138	1135	1137	1128	1127	1123	1127
115	1080	1089	1094	1093	1094	1091	1090	1090	1084	1086	1081	1081	1080	1077	1078	1070	1068	1064	1066
120	1015	1024	1027	1027	1028	1026	1027	1024	1019	1021	1015	1016	1013	1009	1010	1000	1000	995	998
125	941	949	954	955	955	955	953	952	947	948	941	941	938	936	933	925	924	920	921
130	858	868	871	874	875	875	874	873	867	866	861	859	857	852	852	843	840	837	839
135	772	781	786	788	789	789	788	786	782	781	775	772	770	765	763	755	753	748	750
140	679	689	694	696	697	698	697	697	691	690	683	680	678	672	669	661	658	656	657
145	584	592	597	601	603	603	602	601	596	594	587	584	582	576	571	565	562	558	559
150	484	492	498	502	503	504	503	503	498	495	488	486	482	476	472	464	462	458	460
155	383	391	396	402	402	404	403	403	398	395	388	384	381	375	371	364	361	357	359
160	282	291	295	301	301	304	302	303	298	295	288	285	281	274	271	263	261	257	259
165	186	194	198	203	204	207	205	205	201	199	193	188	186	179	175	168	166	162	164
170	101	107	110	115	116	118	116	115	113	111	106	100	99.0	94.8	91.2	86.4	84.1	81.3	81.9
175	35.2	38.4	40.0	42.5	43.1	43.6	41.6	37.4	30.3	26.1	24.5	26.7	20.9	19.1	18.9	18.5	18.6	18.6	19.6
180	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.1	18.1	18.1	18.1	18.1	18.2	18.2	18.2	18.2	18.2	18.2	18.1

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:25 April 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: OB200-80W-57K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.3611A P:77.83W PF:0.9801 Lamp Flux:11942.8x1 lm		
NAME: OB200-80W-57K	TYPE:LED	WEIGHT:
SPEC.:57K	DIM.:	SERIAL No.:002RD
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	96.5	96.3	96.7	96.7	96.8														
5	147	144	143	139	136														
10	230	225	224	217	213														
15	325	321	318	312	306														
20	426	422	420	413	408														
25	528	524	521	514	509														
30	627	623	622	614	610														
35	723	720	717	710	705														
40	814	809	809	801	799														
45	899	895	895	887	883														
50	978	973	974	967	964														
55	1049	1044	1045	1039	1037														
60	1111	1108	1108	1103	1100														
65	1163	1162	1162	1155	1155														
70	1205	1203	1205	1200	1201														
75	1237	1236	1236	1233	1234														
80	1255	1255	1257	1255	1255														
85	1264	1263	1264	1262	1264														
90	1258	1258	1261	1258	1263														
95	1243	1241	1246	1245	1248														
100	1214	1214	1218	1219	1223														
105	1176	1177	1179	1180	1184														
110	1126	1127	1131	1132	1136														
115	1066	1068	1070	1075	1078														
120	997	1000	1004	1007	1012														
125	921	925	928	932	939														
130	839	842	846	850	856														
135	750	754	758	763	769														
140	656	660	664	670	676														
145	559	564	567	573	579														
150	460	464	468	474	480														
155	358	362	366	373	378														
160	258	263	266	273	278														
165	163	168	170	177	181														
170	82.1	85.3	87.9	93.0	96.8														
175	20.1	22.9	24.4	28.0	30.0														
180	18.1	18.1	18.1	18.1	18.1														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:OHS
Test Date:25 April 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: OB200-80W-57K

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	95.73	95.82	95.70	96.00	95.84	96.25	96.14	96.51	96.32	96.74
3.0	110.3	106.9	104.6	101.8	100.3	99.00	99.37	99.79	101.8	103.9
6.0	144.9	140.1	136.4	132.4	130.1	127.9	128.4	128.5	131.8	134.8
9.0	190.9	184.3	180.8	175.1	173.2	169.5	170.7	170.5	174.8	177.2
12.0	244.1	237.1	233.4	226.7	224.7	220.3	221.8	221.3	225.9	228.7
15.0	301.0	294.4	290.2	283.7	280.9	276.5	277.8	277.3	282.0	285.2
18.0	361.0	354.0	349.9	343.2	340.2	336.0	336.3	336.7	340.4	344.1
21.0	422.7	415.3	411.2	403.9	400.9	396.4	397.0	397.0	400.9	405.0
24.0	484.1	477.2	473.1	465.3	461.9	457.0	458.2	458.2	462.1	466.6
27.0	544.7	538.2	534.4	527.1	522.7	518.5	518.7	518.6	522.6	527.1
30.0	603.1	598.3	594.8	587.3	584.0	578.5	579.8	579.3	582.8	586.4
33.0	664.0	657.8	654.4	646.5	642.3	638.4	638.3	638.6	641.0	646.8
36.0	720.2	715.9	713.8	704.5	700.4	695.4	696.1	696.7	697.9	702.8
39.0	776.6	771.7	767.9	760.2	756.4	751.8	751.5	751.2	755.1	759.6
42.0	829.7	825.2	822.3	814.7	810.4	806.0	806.9	805.1	807.3	812.9
45.0	879.9	876.1	875.1	866.4	862.7	858.5	858.2	858.0	859.9	864.5
48.0	929.1	926.1	924.2	915.7	913.1	907.5	908.7	906.8	909.5	915.5
51.0	976.0	973.2	972.7	963.2	960.7	954.5	957.2	955.2	956.3	961.8
54.0	1020	1019	1017	1007	1006	998.9	1000	999.0	1001	1007
57.0	1060	1060	1059	1050	1048	1043	1042	1041	1042	1048
60.0	1099	1097	1097	1089	1087	1081	1082	1080	1081	1087
63.0	1133	1133	1132	1126	1123	1116	1118	1116	1116	1122
66.0	1164	1164	1163	1157	1154	1150	1148	1148	1148	1153
69.0	1190	1191	1191	1184	1181	1177	1177	1175	1176	1182
72.0	1212	1213	1214	1207	1206	1201	1200	1200	1199	1205
75.0	1234	1234	1236	1229	1227	1222	1222	1221	1219	1224
78.0	1247	1250	1250	1243	1242	1238	1238	1236	1235	1241
81.0	1258	1261	1262	1257	1254	1250	1250	1249	1246	1251
84.0	1262	1267	1267	1262	1262	1258	1258	1256	1254	1259
87.0	1263	1268	1271	1267	1263	1261	1262	1257	1256	1260
90.0	1262	1265	1267	1264	1264	1260	1260	1258	1254	1258
93.0	1257	1260	1264	1261	1259	1255	1254	1252	1249	1254
96.0	1243	1250	1253	1249	1250	1245	1242	1244	1239	1243
99.0	1228	1235	1238	1235	1235	1232	1230	1229	1225	1229
102.0	1208	1217	1220	1216	1216	1214	1212	1211	1210	1211
105.0	1186	1192	1196	1196	1192	1191	1191	1192	1186	1187
108.0	1159	1165	1169	1168	1168	1166	1164	1163	1159	1161
111.0	1127	1135	1140	1137	1138	1137	1135	1134	1128	1132
114.0	1091	1101	1105	1104	1105	1103	1101	1100	1095	1098
117.0	1055	1063	1069	1068	1069	1066	1066	1065	1060	1061
120.0	1015	1024	1027	1027	1028	1026	1027	1024	1019	1021
123.0	971.1	979.9	984.7	985.7	985.5	984.4	983.8	982.7	976.6	978.3
126.0	924.8	933.0	937.3	939.0	940.3	939.2	938.0	937.6	931.7	933.1
129.0	876.0	884.6	889.3	891.2	890.2	890.7	890.1	890.3	884.2	883.3
132.0	825.1	833.1	839.4	840.6	840.7	841.2	840.7	839.1	833.5	834.3
135.0	772.1	780.9	786.3	788.4	789.2	789.5	788.2	786.1	781.9	780.9
138.0	717.4	726.0	730.9	734.5	734.6	735.5	734.0	733.4	727.8	726.1
141.0	660.5	669.6	674.9	677.6	678.0	679.1	678.1	677.8	672.1	670.9
144.0	602.4	612.2	616.9	621.4	621.5	622.2	621.2	621.1	615.1	613.4
147.0	544.3	552.8	557.6	562.0	562.6	564.0	562.1	561.7	557.0	554.8
150.0	484.2	492.2	498.0	502.3	503.3	504.2	503.5	503.0	498.2	495.0
153.0	423.4	431.3	437.0	441.6	443.0	444.8	443.4	442.8	437.9	435.3
156.0	362.6	370.9	375.6	380.5	381.8	384.1	382.9	381.9	377.8	375.0
159.0	302.4	310.5	315.2	320.6	321.7	324.1	322.3	322.3	317.7	314.6
162.0	243.2	251.7	255.6	261.2	262.2	264.9	262.6	263.1	258.0	256.2
165.0	186.2	193.9	197.8	203.2	203.9	206.6	204.9	205.1	201.1	199.0
168.0	133.7	139.8	143.0	148.5	149.2	151.7	149.9	150.0	146.5	144.6
171.0	86.09	91.39	94.69	98.87	100.3	101.9	99.93	97.44	97.18	95.31
174.0	47.50	51.19	53.82	56.86	57.76	58.87	56.41	52.00	47.04	45.00
177.0	18.13	18.14	18.13	18.11	18.11	18.08	18.08	18.05	18.02	18.02
180.0	18.23	18.24	18.22	18.21	18.20	18.18	18.16	18.14	18.12	18.10
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	96.71	96.85	95.73	95.82	95.70	96.00	95.84	96.25	96.14	96.51
3.0	107.3	109.9	111.5	114.9	116.6	119.3	120.2	121.8	121.3	121.8
6.0	139.5	142.7	145.8	151.8	153.7	158.6	159.3	162.2	161.2	162.0
9.0	184.2	188.5	192.4	199.1	202.0	207.5	208.6	211.9	210.6	211.7
12.0	236.3	240.5	245.8	253.1	256.6	262.7	263.9	267.2	266.3	267.0
15.0	292.5	297.8	302.7	310.5	315.3	320.3	322.5	325.3	324.6	325.3
18.0	351.7	357.7	362.8	370.8	374.9	380.7	383.1	385.8	385.4	385.4
21.0	411.9	419.1	423.5	432.1	436.8	441.8	443.9	447.3	446.6	446.3
24.0	472.7	480.0	484.8	493.5	497.8	501.8	505.4	507.6	507.3	507.6
27.0	534.6	540.5	545.4	554.6	558.3	563.5	565.6	568.2	568.2	567.2
30.0	594.1	600.3	604.9	614.2	618.4	623.5	625.8	627.7	627.5	627.4

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 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: OB200-80W-57K

Photometric Data Table [cd]

33.0	652.7	659.3	663.5	672.5	677.5	682.3	683.2	685.7	685.2	685.8
36.0	710.7	716.8	720.4	729.9	734.7	737.1	740.2	741.9	742.4	740.7
39.0	764.8	771.9	776.0	785.0	789.3	793.4	795.6	796.1	795.9	796.5
42.0	819.0	826.2	829.5	837.1	843.1	845.3	847.3	848.5	848.9	848.6
45.0	870.2	877.4	879.3	889.3	894.3	896.0	897.5	897.2	899.2	899.4
48.0	919.1	926.0	928.2	938.2	942.2	943.6	946.8	946.8	947.1	947.1
51.0	967.1	973.3	976.0	983.6	988.8	989.8	991.2	990.9	992.9	991.6
54.0	1010	1017	1019	1027	1034	1033	1034	1035	1034	1035
57.0	1051	1059	1060	1069	1073	1072	1075	1074	1076	1076
60.0	1089	1098	1098	1106	1110	1110	1112	1109	1111	1111
63.0	1125	1130	1132	1139	1144	1142	1144	1143	1144	1145
66.0	1155	1162	1163	1170	1175	1172	1172	1172	1175	1173
69.0	1183	1190	1191	1197	1201	1199	1198	1197	1198	1199
72.0	1206	1211	1213	1218	1223	1220	1221	1220	1219	1219
75.0	1225	1232	1231	1238	1243	1238	1239	1235	1238	1237
78.0	1241	1246	1247	1252	1255	1252	1252	1250	1250	1249
81.0	1251	1257	1258	1262	1265	1260	1261	1257	1258	1259
84.0	1258	1264	1264	1268	1270	1266	1265	1262	1264	1262
87.0	1261	1264	1265	1266	1271	1266	1264	1261	1264	1261
90.0	1257	1261	1261	1264	1267	1261	1261	1256	1259	1258
93.0	1251	1256	1255	1258	1259	1252	1252	1248	1251	1250
96.0	1241	1245	1243	1245	1247	1240	1241	1237	1239	1237
99.0	1226	1229	1228	1229	1231	1224	1223	1219	1221	1221
102.0	1207	1211	1209	1210	1210	1203	1201	1199	1200	1200
105.0	1186	1187	1184	1185	1186	1178	1178	1172	1177	1176
108.0	1158	1159	1159	1157	1158	1150	1148	1145	1147	1146
111.0	1127	1128	1127	1126	1125	1117	1117	1111	1115	1115
114.0	1092	1094	1093	1090	1089	1083	1081	1077	1078	1079
117.0	1056	1056	1054	1050	1051	1042	1042	1037	1039	1040
120.0	1015	1016	1013	1009	1010	1000	1000	995.3	997.6	997.5
123.0	971.9	970.9	968.4	966.0	964.8	957.6	954.9	951.0	952.8	952.6
126.0	926.1	925.0	922.6	919.0	917.2	909.1	907.6	903.1	905.9	905.1
129.0	878.1	876.2	874.2	869.4	869.2	858.7	857.3	854.5	856.3	856.5
132.0	825.8	825.7	822.5	818.3	816.6	807.1	805.8	801.2	804.5	803.2
135.0	775.1	772.3	769.8	765.1	762.7	754.7	752.6	748.0	749.6	750.0
138.0	720.1	716.9	714.9	709.3	707.0	698.8	696.2	692.0	694.9	694.8
141.0	664.5	660.5	658.6	653.3	649.8	641.7	639.2	636.1	637.6	637.3
144.0	606.7	603.6	601.2	595.7	592.6	584.0	580.7	577.0	578.8	579.5
147.0	548.7	544.7	541.8	536.2	532.8	524.3	522.4	518.7	520.0	519.9
150.0	488.5	485.7	482.4	476.2	472.4	464.3	461.8	458.4	460.1	459.5
153.0	428.6	424.4	422.2	415.7	411.0	404.0	400.8	397.4	399.3	398.5
156.0	368.6	364.5	361.1	354.8	350.7	343.3	340.4	336.8	338.1	337.9
159.0	308.7	304.3	301.0	294.6	290.5	283.1	280.9	276.7	278.4	277.9
162.0	249.4	245.6	242.4	235.1	231.5	224.6	222.3	218.5	219.9	219.9
165.0	192.5	188.2	185.6	178.7	174.9	168.1	166.1	162.5	164.0	163.3
168.0	139.2	134.9	132.1	126.5	122.8	117.2	114.8	111.9	112.7	112.5
171.0	90.32	83.47	83.66	80.15	76.91	72.36	70.19	67.61	68.09	68.30
174.0	40.79	40.84	43.11	40.05	37.76	34.71	34.04	32.74	33.48	33.86
177.0	18.01	17.98	18.23	18.22	18.21	18.19	18.17	18.16	18.13	18.10
180.0	18.09	18.08	18.25	18.24	18.23	18.21	18.19	18.19	18.15	18.14
G/C	300.0	315.0	330.0	345.0						
0.0	96.32	96.74	96.71	96.85						
3.0	120.0	118.9	115.9	113.8						
6.0	158.5	157.4	152.1	149.3						
9.0	207.5	205.9	199.6	195.9						
12.0	262.5	260.5	253.6	249.6						
15.0	320.6	318.4	311.7	306.5						
18.0	381.2	378.9	371.2	366.9						
21.0	442.2	439.7	432.7	427.2						
24.0	503.9	501.1	493.4	488.5						
27.0	563.5	560.8	554.8	549.9						
30.0	622.7	621.7	613.7	610.3						
33.0	680.4	678.7	673.1	667.8						
36.0	736.6	736.0	727.9	724.3						
39.0	791.2	790.2	785.2	780.4						
42.0	845.2	843.1	836.9	832.8						
45.0	894.7	894.6	887.0	883.3						
48.0	942.8	942.1	935.5	933.5						
51.0	987.8	988.3	982.7	978.7						
54.0	1030	1032	1025	1024						
57.0	1071	1071	1066	1064						
60.0	1108	1108	1103	1100						
63.0	1141	1142	1136	1134						
66.0	1171	1170	1167	1165						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 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: OB200-80W-57K

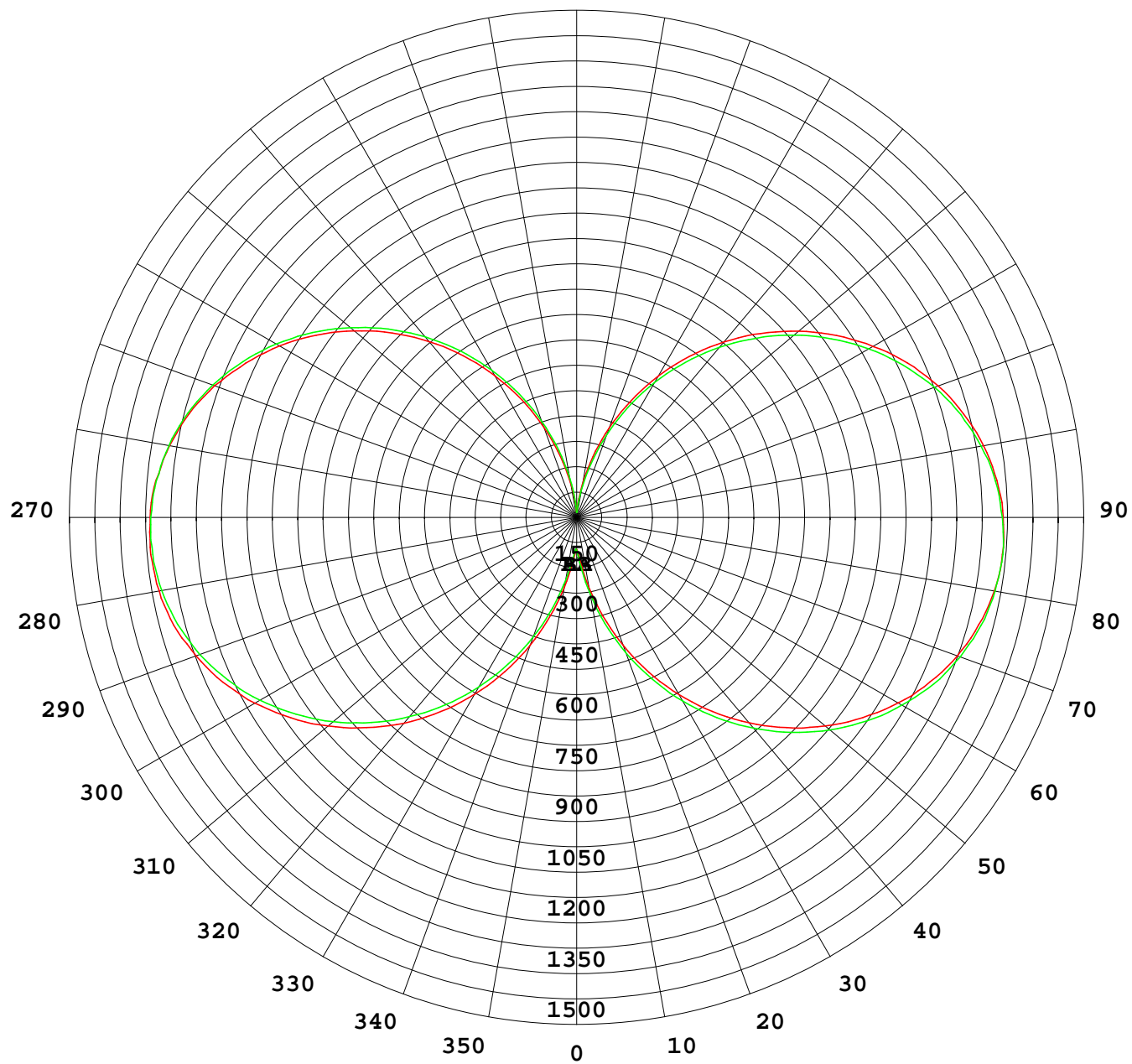
Photometric Data Table [cd]

69.0	1196	1197	1192	1193
72.0	1217	1219	1215	1216
75.0	1236	1236	1233	1234
78.0	1247	1250	1247	1249
81.0	1256	1259	1256	1258
84.0	1263	1265	1262	1263
87.0	1262	1265	1262	1265
90.0	1258	1261	1258	1263
93.0	1250	1253	1251	1256
96.0	1239	1241	1240	1243
99.0	1220	1224	1224	1228
102.0	1201	1203	1206	1209
105.0	1177	1179	1180	1184
108.0	1148	1150	1153	1157
111.0	1115	1120	1120	1126
114.0	1079	1084	1087	1091
117.0	1042	1045	1049	1054
120.0	999.9	1004	1007	1012
123.0	955.7	958.4	962.1	968.4
126.0	908.4	912.3	916.3	920.1
129.0	857.8	863.1	867.6	873.9
132.0	807.0	810.6	816.4	821.3
135.0	753.6	758.4	763.0	768.8
138.0	698.5	701.6	707.8	713.6
141.0	640.8	645.6	650.8	657.1
144.0	583.0	587.4	592.6	599.2
147.0	524.3	527.4	533.3	539.4
150.0	463.6	467.8	473.7	479.7
153.0	403.2	406.5	413.1	418.8
156.0	342.9	345.4	352.5	358.2
159.0	282.8	285.2	293.1	297.3
162.0	224.2	226.6	233.8	238.3
165.0	168.1	170.2	177.2	181.3
168.0	116.3	118.9	124.5	128.9
171.0	71.37	73.70	78.47	82.10
174.0	35.96	37.85	41.24	43.94
177.0	18.10	18.09	18.08	18.08
180.0	18.12	18.11	18.09	18.09

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: OHS
Test Date: 25 April 2022

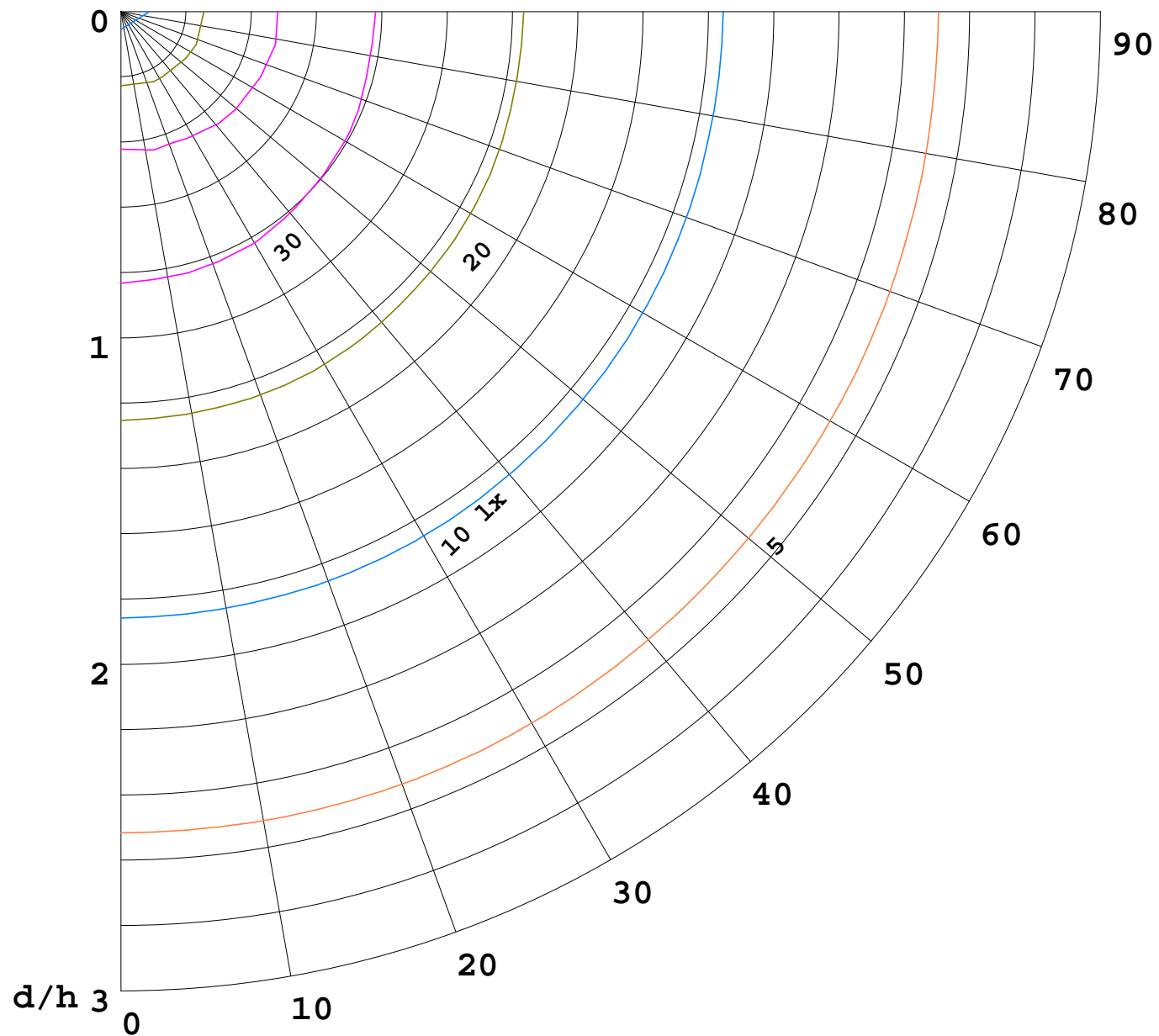
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks: OB200-80W-57K

I(cd)



1000 lm

$K = 1$



F = 1000 lm
K = 0.7
Hcc = 0.8 m
Hfc = 0.0 m
Eave = 100 lx

	Pcc	Pw	Pfc
————	70	50	30
————	50	30	20

