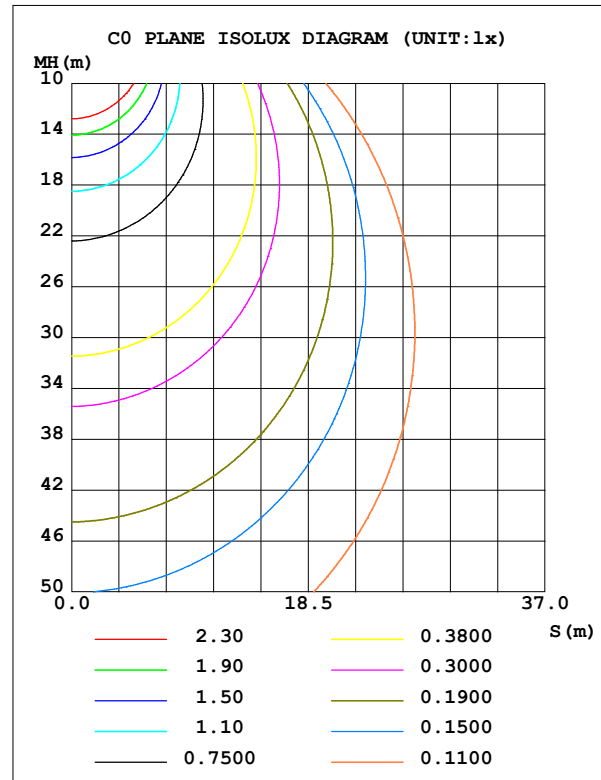
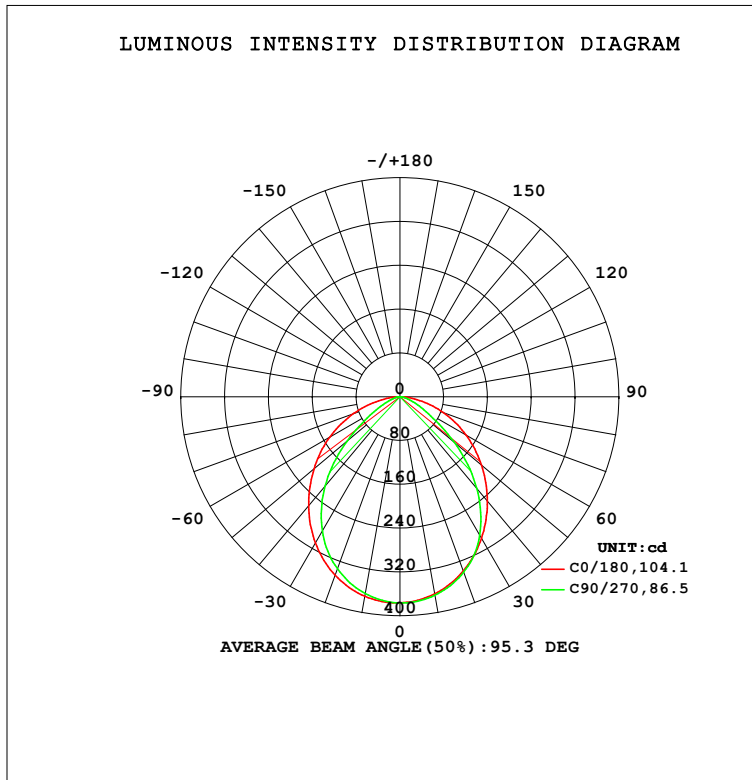


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 48.17 lm/W
MODEL	DPAL-007 2700K	I _{max} (cd)	376.6	S/MH (C0/180)	1.22	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.14	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	830.98	η UP,DN (C0-180)	0.0, 50.4	
NOMINAL FLUX (lm)	830.975	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0, 49.6	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	365.6	366.9	368.1	369.7	369.9	367.7	365.1	364.9	0- 10	35.49	35.49	4.27,4.27
20	338.6	340.0	341.0	345.2	346.6	341.1	334.3	335.6	10- 20	100.3	135.8	16.3,16.3
30	298.2	298.4	291.8	305.2	308.6	298.9	283.6	291.7	20- 30	147.5	283.3	34.1,34.1
40	248.5	241.4	218.3	248.4	259.7	242.7	212.8	234.6	30- 40	168.1	451.4	54.3,54.3
50	194.4	172.0	129.7	177.5	204.9	175.2	126.3	167.7	40- 50	157.4	608.8	73.3,73.3
60	139.2	97.43	55.72	99.82	148.3	99.01	54.37	93.46	50- 60	118.8	727.5	87.6,87.6
70	84.45	33.73	22.02	34.82	90.29	33.66	19.83	31.49	60- 70	69.72	797.3	95.9,95.9
80	31.97	8.472	7.127	8.971	34.88	7.659	5.634	7.077	70- 80	28.65	825.9	99.4,99.4
90	0.4294	0.2727	0.2445	0.3573	0.4325	0.2194	0.1066	0.2319	80- 90	5.066	831.0	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 533.33 lm

%lum = 64.2%

%lamp = 64.2%

Conical surface Flux(120deg): 727.54 lm

%lum = 87.6%

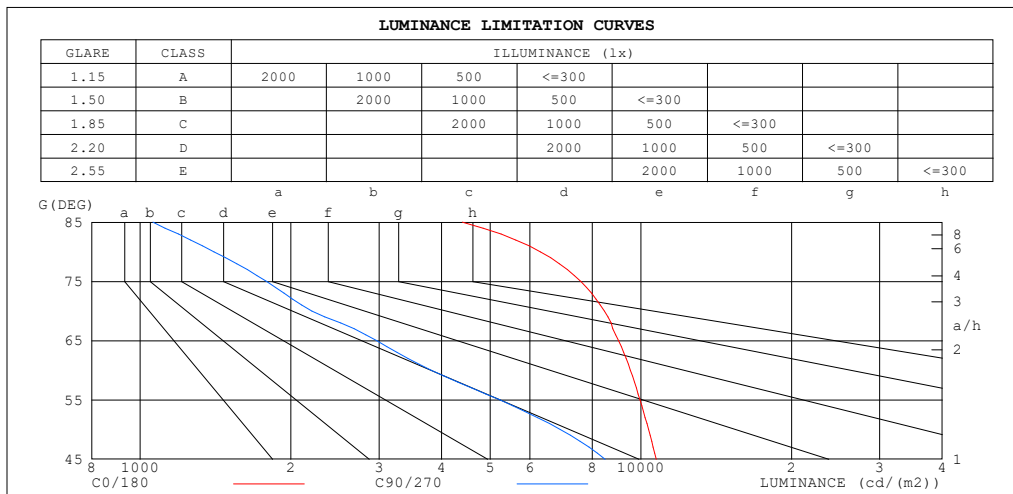
%lamp = 87.6%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4398	1060
80	6305	1406
75	7585	1787
70	8456	2205
65	9030	2967
60	9536	3816
55	9964	5225
50	10359	6909
45	10740	8488

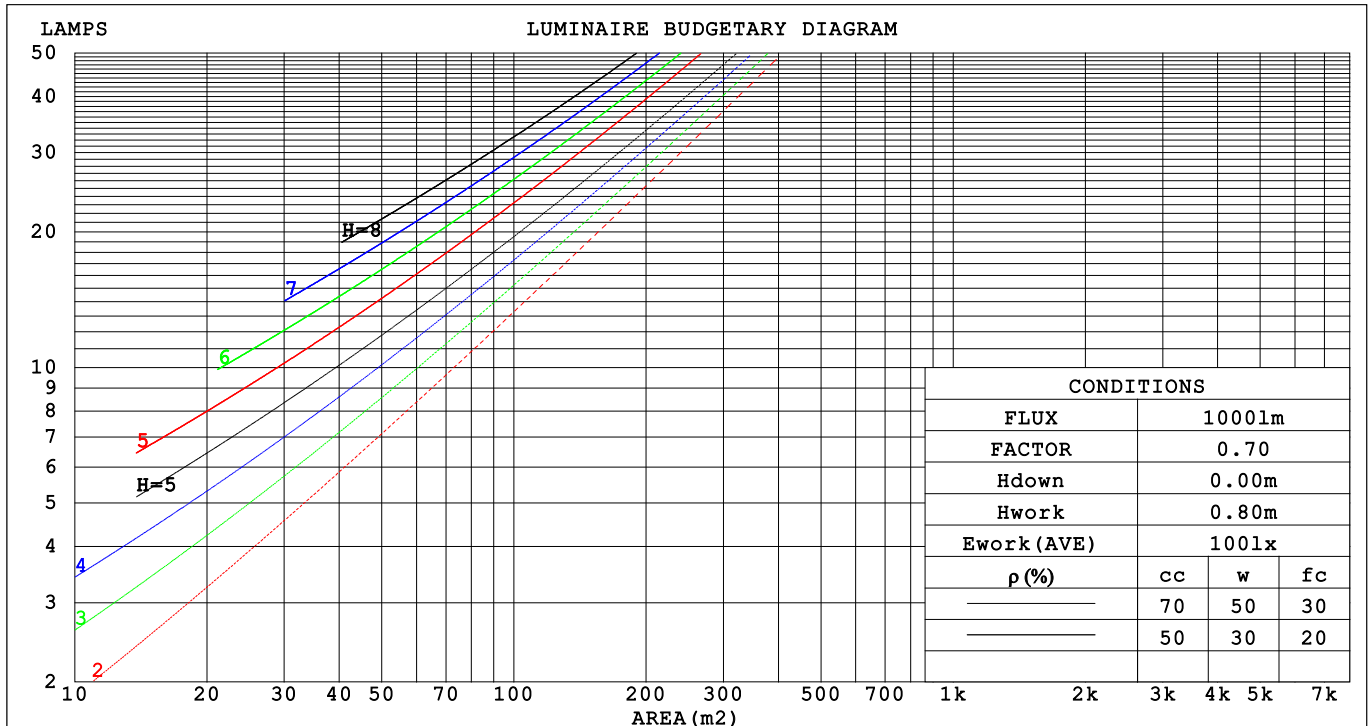
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	
1.0	1.06	1.03	.99	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.92	.91	.89	.87	
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.79	.83	.80	.77	.75	
3.0	.84	.77	.71	.82	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65	
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56	
5.0	.68	.59	.53	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.51	.49	
6.0	.61	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44	
7.0	.56	.48	.42	.55	.47	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39	
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35	
9.0	.47	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32	
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.41	.35	.31	.29	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm											
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2 TYPE:LED						WEIGHT:					
SPEC.:						DIM.:			SERIAL No.:		
MFR.: DARKON						SUR.:			Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.264	.150	.047	.257	.146	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041	
2.0	.255	.140	.043	.249	.137	.042	.237	.132	.041	.227	.127	.040	.217	.123	.039	
3.0	.240	.128	.038	.235	.126	.038	.225	.122	.037	.216	.118	.036	.207	.115	.036	
4.0	.225	.117	.034	.221	.115	.034	.212	.112	.034	.204	.109	.033	.196	.107	.032	
5.0	.211	.107	.031	.207	.106	.031	.199	.104	.030	.192	.101	.030	.185	.099	.030	
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.180	.094	.028	.174	.092	.027	
7.0	.185	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.165	.086	.025	
8.0	.174	.085	.024	.171	.084	.024	.166	.083	.024	.161	.081	.023	.156	.080	.023	
9.0	.164	.080	.022	.162	.079	.022	.157	.077	.022	.152	.076	.022	.148	.075	.022	
10.0	.155	.074	.021	.153	.074	.021	.148	.073	.020	.144	.072	.020	.140	.070	.020	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.102	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.078	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.060	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.112	.064	.031	.077	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.124	.068	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.113	.059	.023	.098	.051	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm										
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2 TYPE:LED						WEIGHT:				
SPEC.:						DIM.:		SERIAL No.:		
MFR.: DARKON						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				
x = 2H y = 2H						Viewed endwise				
3H						18.7	20.1	19.0	20.3	20.5
4H						19.0	20.3	19.3	20.5	20.7
6H						19.0	20.2	19.3	20.5	20.7
8H						19.0	20.1	19.3	20.4	20.7
12H						19.0	20.1	19.3	20.4	20.6
4H 2H						19.0	20.0	19.3	20.3	20.6
3H						21.7	23.1	21.9	23.2	23.4
4H						23.0	24.3	23.3	24.5	24.7
6H						23.5	24.7	23.8	24.9	25.2
8H						23.8	24.9	24.1	25.2	25.5
12H						23.9	25.0	24.2	25.2	25.5
4H 4H						23.9	24.9	24.2	25.2	25.5
3H						19.3	20.5	19.6	20.8	21.0
4H						23.8	24.8	24.2	25.1	25.4
6H						23.3	24.3	23.6	24.6	24.9
8H						24.2	25.0	24.6	25.4	25.7
12H						24.3	25.1	24.7	25.4	25.8
8H 4H						24.4	25.1	24.8	25.4	25.8
6H						19.9	20.6	20.3	21.0	21.4
8H						24.2	24.8	24.6	25.2	25.6
12H						20.0	20.6	20.4	21.0	21.4
4H 4H						24.3	24.8	24.7	25.3	25.7
6H						20.0	20.5	20.4	21.0	21.4
8H						24.4	24.8	24.8	25.3	25.8
12H						20.0	20.5	20.4	20.9	21.4
4H 4H						23.7	24.4	24.2	24.8	25.2
6H						19.9	20.6	20.3	21.0	21.4
8H						24.1	24.7	24.6	25.1	25.6
12H						20.0	20.5	20.4	20.9	21.4
4H 4H						24.3	24.7	24.7	25.2	25.7
6H						20.0	20.5	20.5	20.9	21.4
8H						20.0	20.5	20.5	20.9	21.4
Variations with the observer position at spacings:										
S = 1.0H						+ 0.2 / - 0.3				
1.5H						+ 0.2 / - 0.4				
2.0H						+ 0.6 / - 0.7				
						+ 0.8 / - 1.0				
						+ 0.3 / - 0.6				
						+ 1.3 / - 2.1				

CIE Pub.117, 831.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.6$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

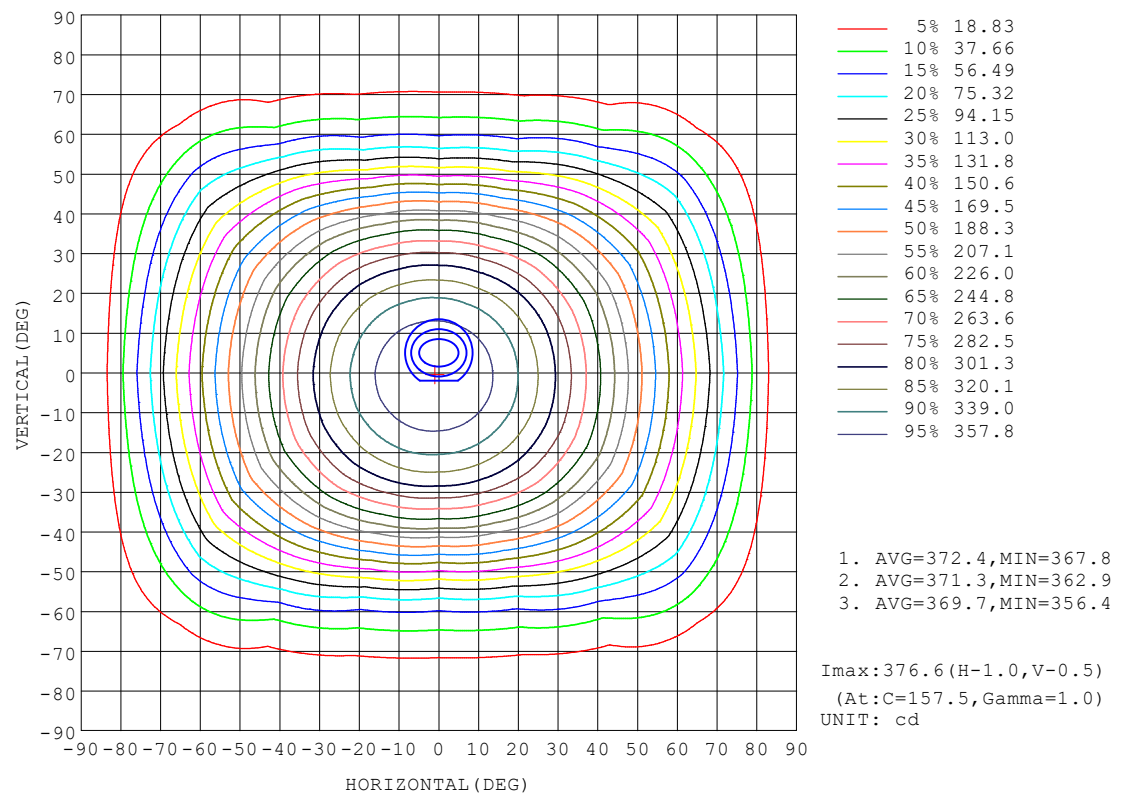
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	52	46	62	52	46	61	52	46	40
0.80	73	63	56	72	62	56	70	61	55	49
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	96	90	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	108	104	100	106	102	98	102	99	96	87
5.00	110	106	103	108	105	101	104	101	98	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

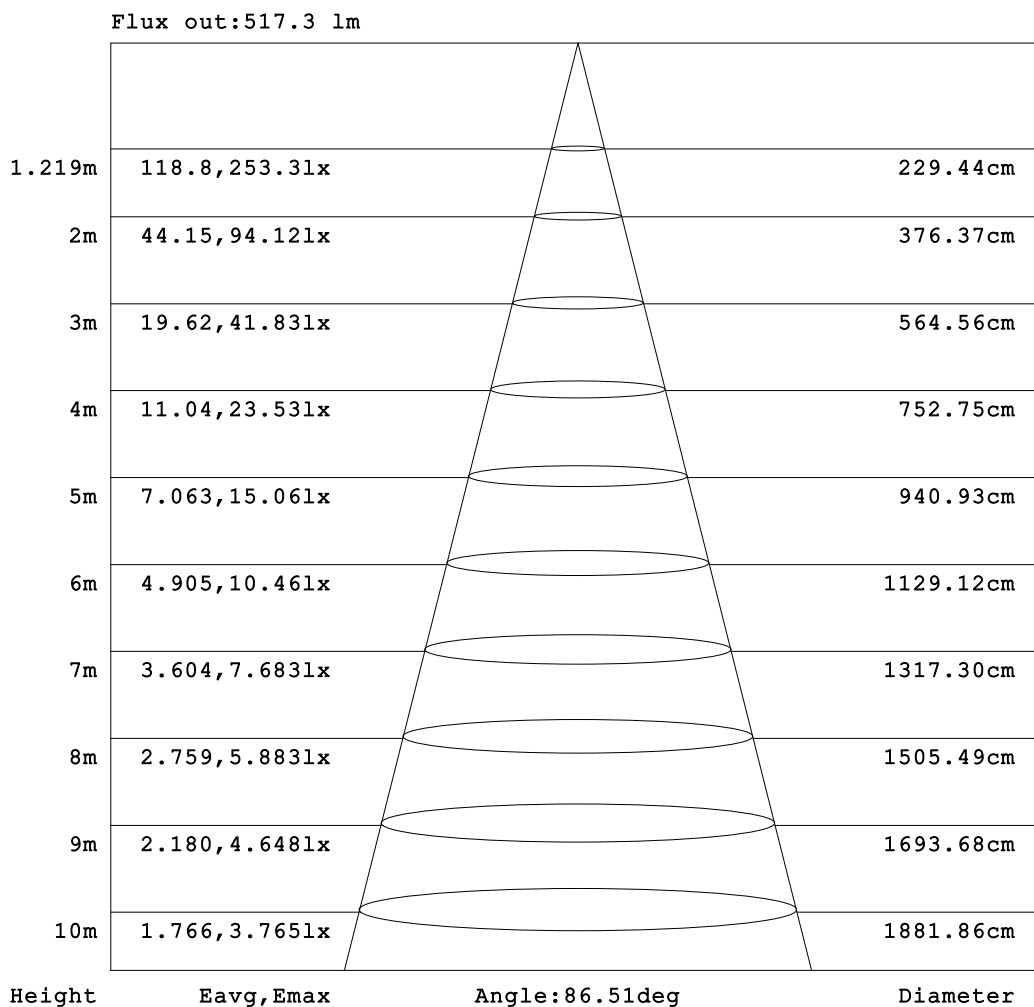


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:17 September 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:7.250m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



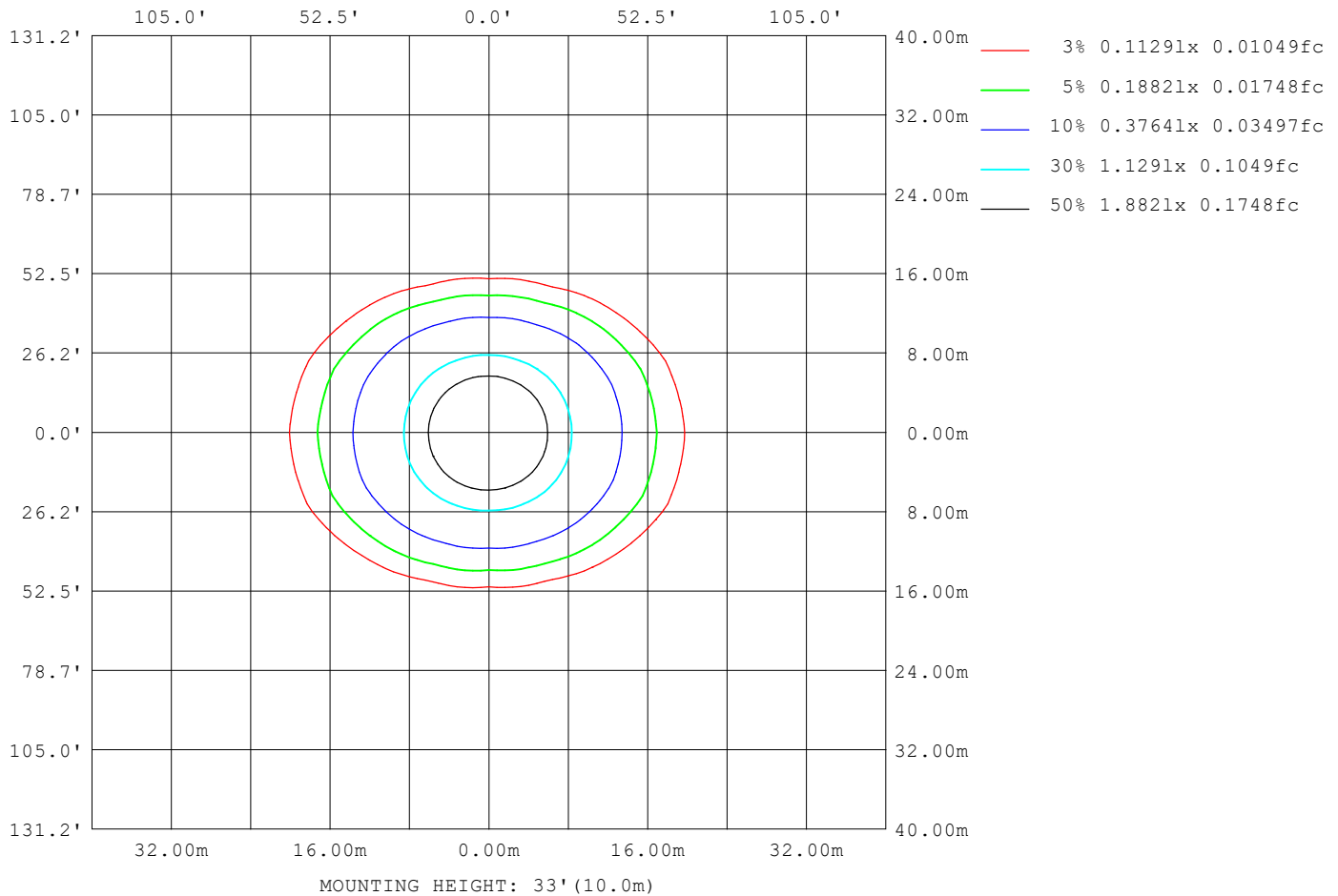
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.06V I:0.1081A P:17.252W PF:0.6651 Freq:50.09Hz Lamp Flux:830.975x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_2	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

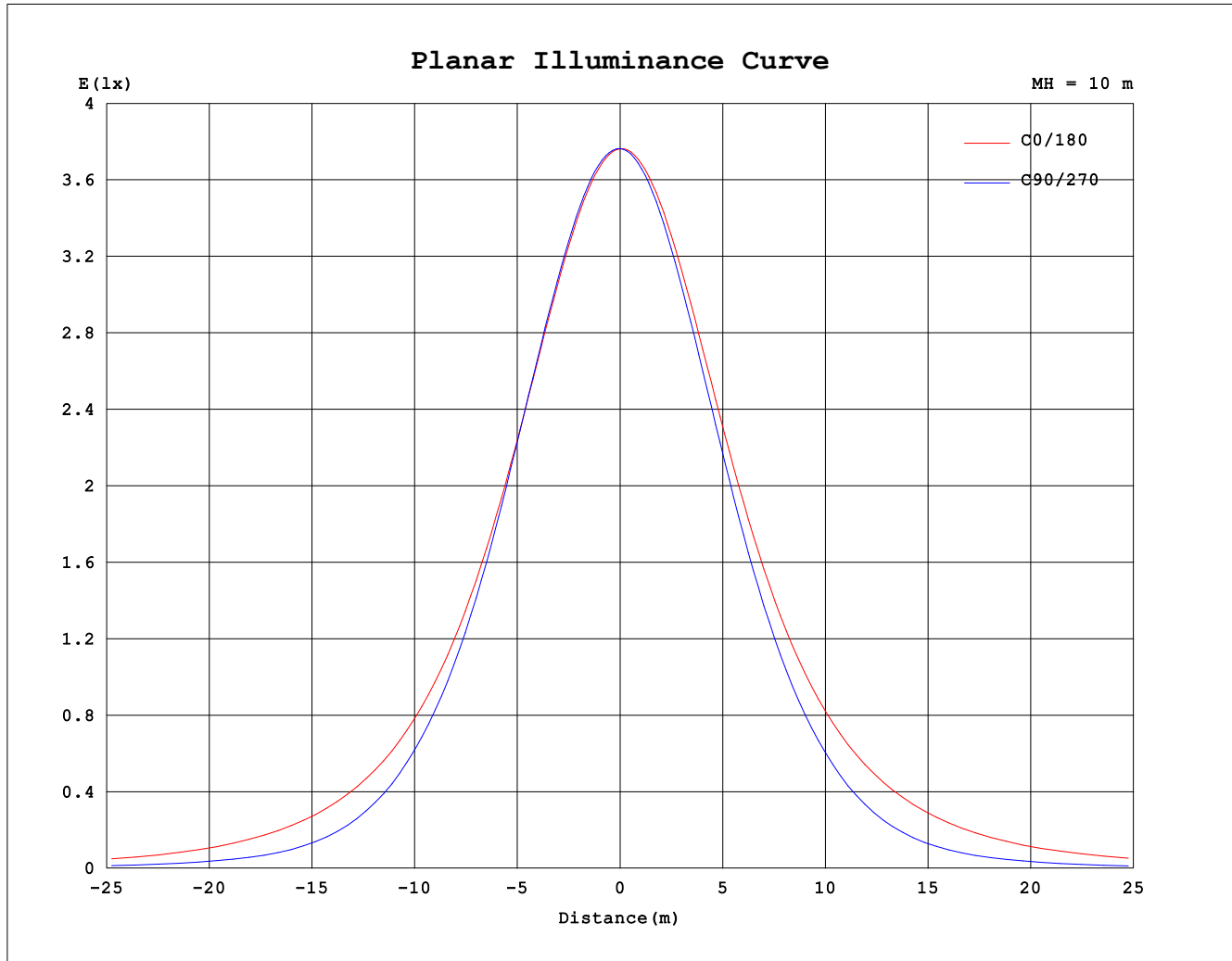
AvgL	cd/m2
L_0~180(65)av	9347
L_0~180(75)av	7874
L_0~180(85)av	4665
L_90~270(65)av	2888
L_90~270(75)av	1664
L_90~270(85)av	882
L_45(65)av	4928
L_45(75)av	2189
L_45(85)av	1056

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:17 September 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 17 September 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

```