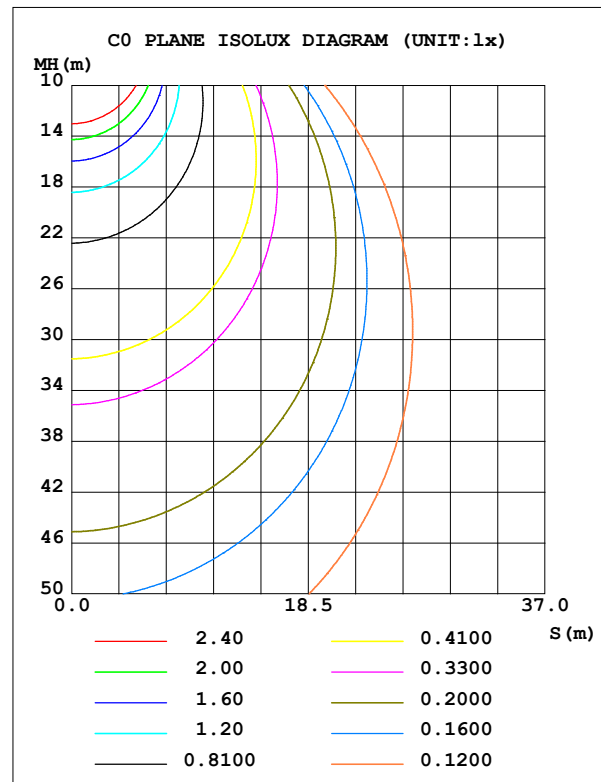
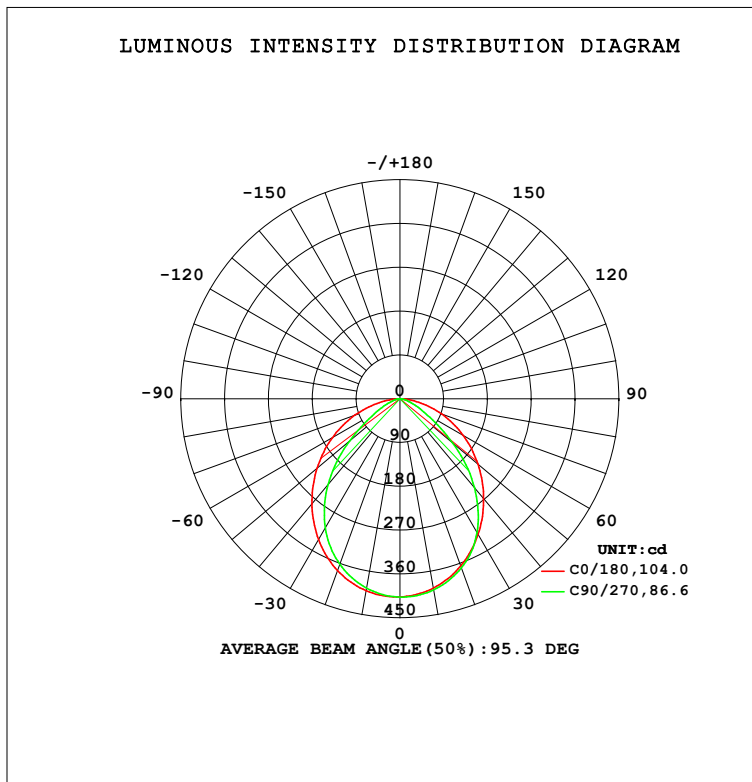


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 52.07 lm/W
MODEL	DPAL-007 4000K	I <sub>max</sub> (cd)	407.5	S/MH (C0/180)	1.23	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.14	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	898.39	η UP,DN (C0-180)	0.0, 50.5	
NOMINAL FLUX (lm)	898.395	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0, 49.5	
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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	395.0	397.1	398.7	399.8	400.5	397.6	394.9	394.4	0- 10	38.39	38.39	4.27,4.27
20	365.5	368.0	369.6	373.3	375.6	368.6	361.7	362.7	10- 20	108.5	146.8	16.3,16.3
30	321.5	323.1	317.0	330.0	334.4	323.0	306.7	315.2	20- 30	159.6	306.4	34.1,34.1
40	267.7	261.7	238.2	268.4	281.5	261.6	229.8	253.5	30- 40	181.8	488.2	54.3,54.3
50	209.3	187.2	142.3	191.8	222.2	187.8	135.3	181.2	40- 50	170.2	658.4	73.3,73.3
60	149.9	106.6	60.93	107.8	160.8	104.9	57.68	101.1	50- 60	128.3	786.7	87.6,87.6
70	90.89	37.12	24.03	37.80	97.91	35.47	21.44	33.99	60- 70	75.25	861.9	95.9,95.9
80	34.37	9.218	7.742	9.720	37.78	8.258	6.138	7.652	70- 80	30.96	892.9	99.4,99.4
90	0.4764	0.3040	0.2695	0.3855	0.4764	0.2413	0.1254	0.2413	80- 90	5.487	898.4	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): 576.87 lm

%lum = 64.2%

%lamp = 64.2%

Conical surface Flux(120deg): 786.69 lm

%lum = 87.6%

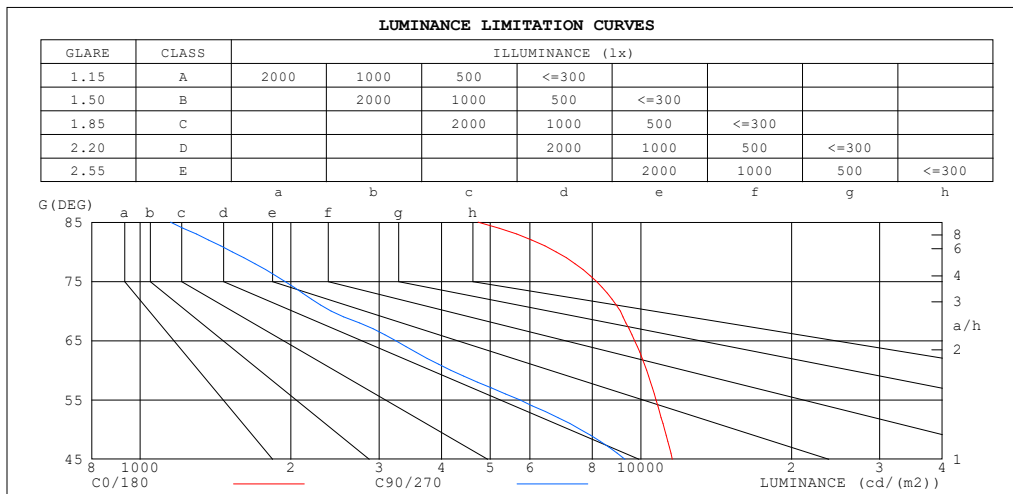
%lamp = 87.6%

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4731	1150
80	6778	1527
75	8156	1944
70	9101	2406
65	9723	3238
60	10268	4173
55	10729	5727
50	11153	7579
45	11566	9294

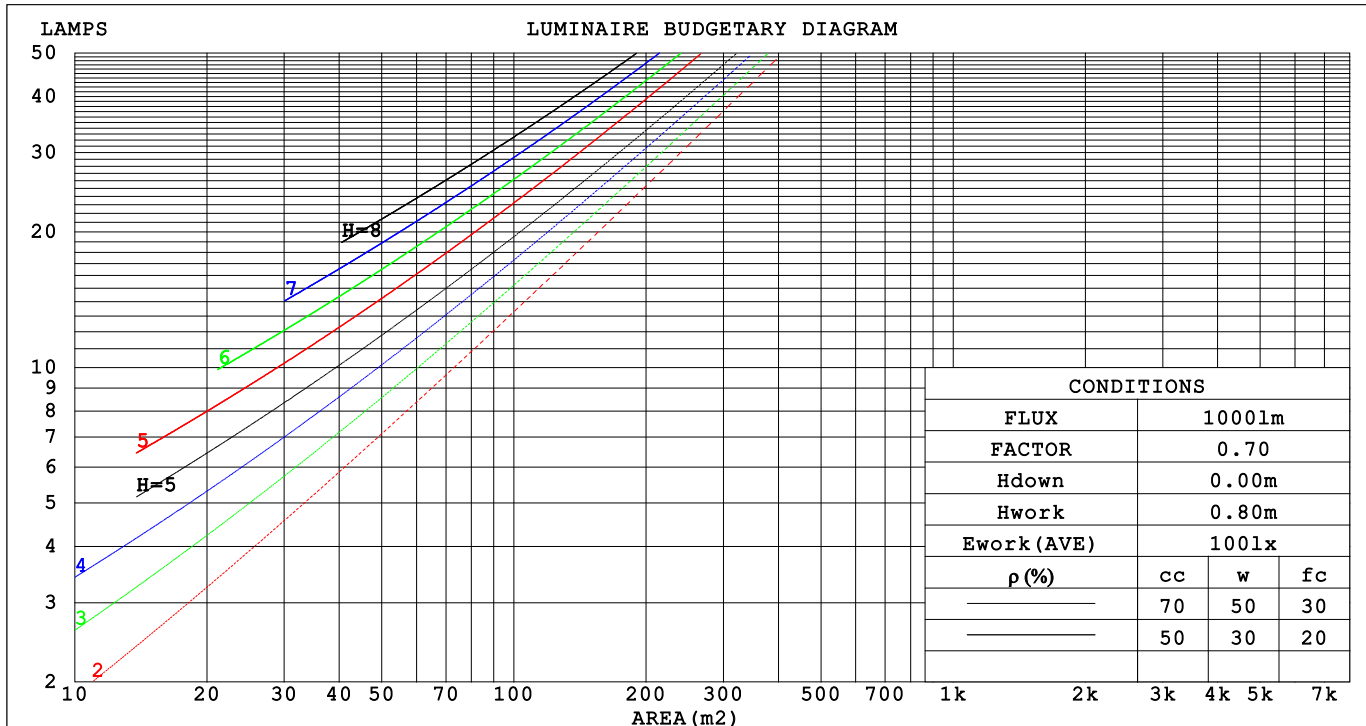
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:17 September 2020

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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE: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	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm											
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE: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	.106	.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	.085	.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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm											
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE: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					Viewed endwise				
x = 2H y = 2H	2H	21.7	23.0	21.9	23.2	23.4	18.8	20.2	19.1	20.4	20.6
	3H	23.0	24.3	23.3	24.5	24.7	19.0	20.3	19.3	20.6	20.8
	4H	23.5	24.7	23.8	24.9	25.2	19.1	20.3	19.4	20.5	20.8
	6H	23.8	24.9	24.1	25.2	25.4	19.1	20.2	19.4	20.5	20.8
	8H	23.8	24.9	24.2	25.2	25.5	19.1	20.2	19.4	20.4	20.7
	12H	23.9	24.9	24.2	25.2	25.5	19.0	20.1	19.4	20.4	20.7
4H	2H	21.8	23.0	22.1	23.2	23.5	19.4	20.6	19.7	20.9	21.1
	3H	23.3	24.3	23.6	24.6	24.9	19.7	20.8	20.1	21.1	21.3
	4H	23.8	24.8	24.2	25.1	25.4	19.8	20.7	20.2	21.1	21.4
	6H	24.2	25.0	24.6	25.4	25.7	19.8	20.7	20.2	21.0	21.4
	8H	24.3	25.1	24.7	25.4	25.8	19.8	20.6	20.2	21.0	21.4
	12H	24.4	25.1	24.8	25.4	25.8	19.8	20.5	20.2	20.9	21.3
8H	4H	23.8	24.6	24.2	24.9	25.3	19.9	20.7	20.3	21.1	21.5
	6H	24.2	24.8	24.6	25.2	25.6	20.0	20.7	20.5	21.1	21.5
	8H	24.3	24.9	24.7	25.3	25.7	20.0	20.6	20.5	21.0	21.5
	12H	24.4	24.8	24.8	25.3	25.8	20.0	20.5	20.5	21.0	21.4
12H	4H	23.7	24.4	24.2	24.8	25.2	19.9	20.6	20.4	21.0	21.4
	6H	24.1	24.7	24.6	25.1	25.6	20.0	20.6	20.5	21.0	21.5
	8H	24.3	24.7	24.7	25.2	25.7	20.1	20.5	20.5	21.0	21.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.7 / - 1.0					
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.6					
2.0H	+ 0.5 / - 0.7					+ 1.3 / - 2.1					

CIE Pub.117, 898.4 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.4$ )

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007	_4KTYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

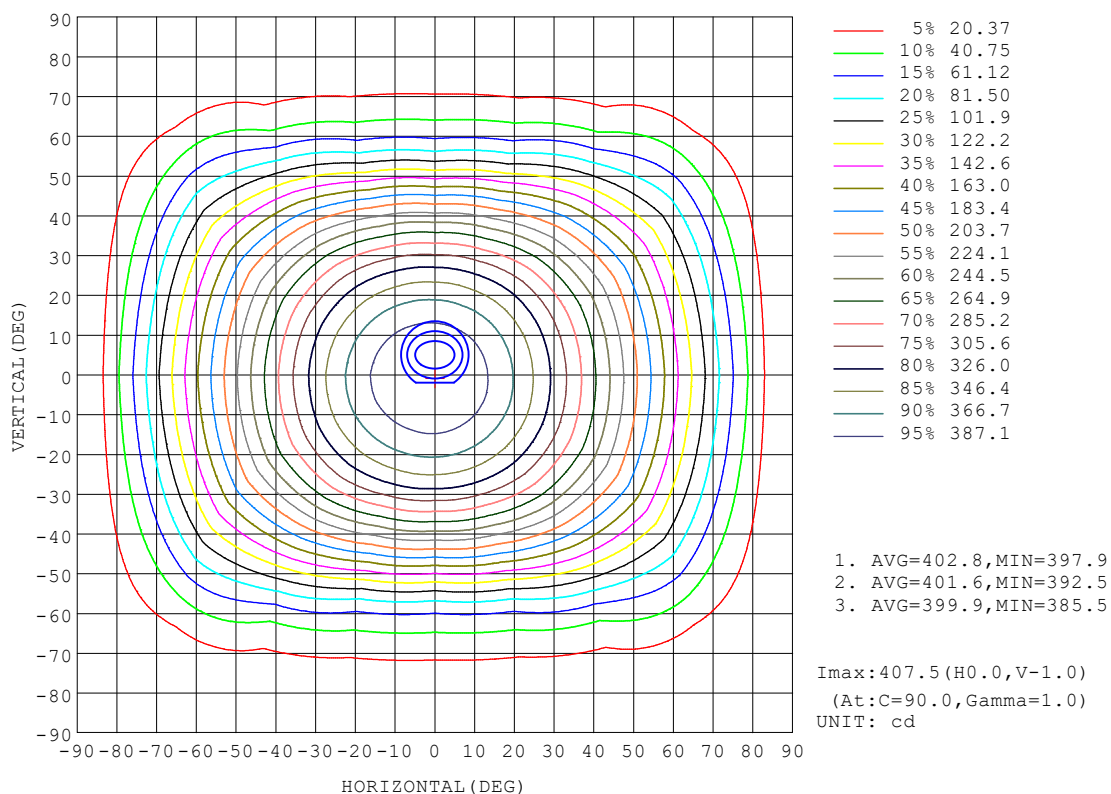
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	52	46	62	52	46	61	52	46	40
0.80	73	63	56	72	62	56	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	111	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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



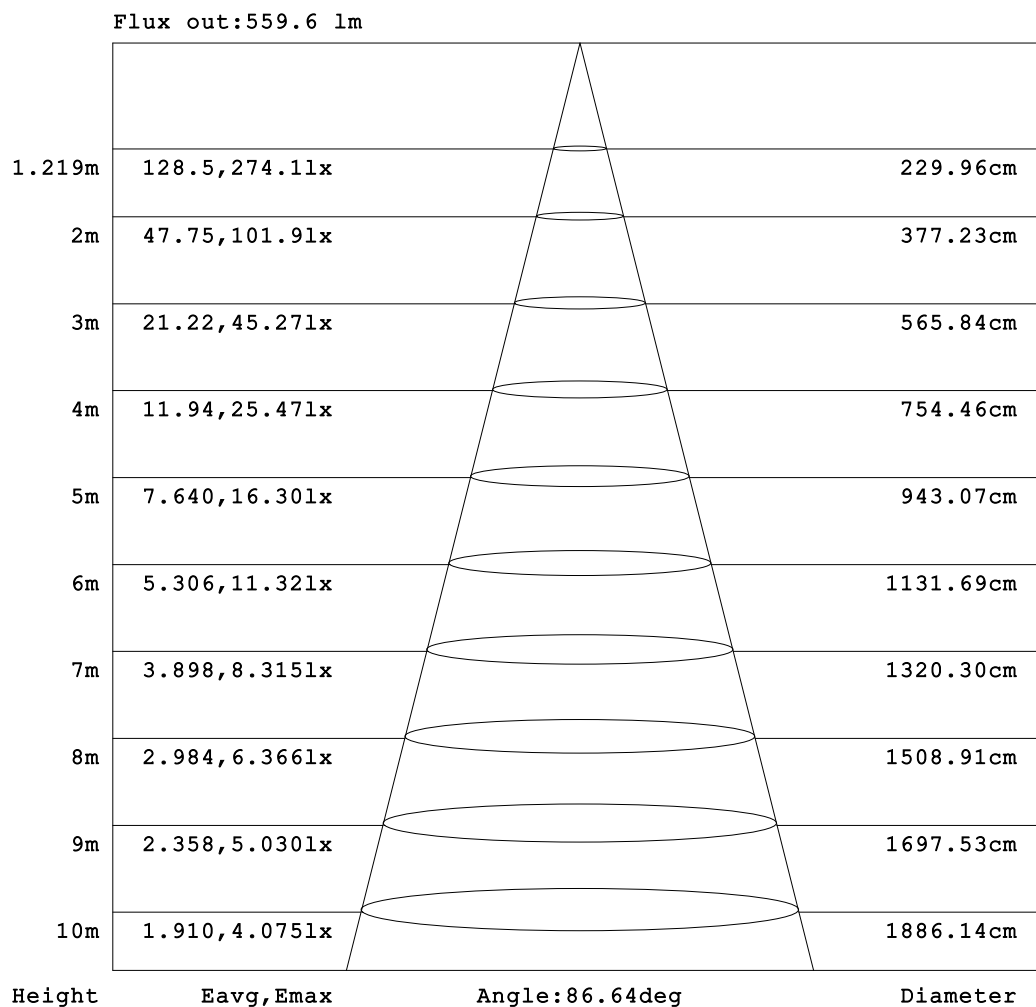
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 17 September 2020

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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007_4KTYPE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



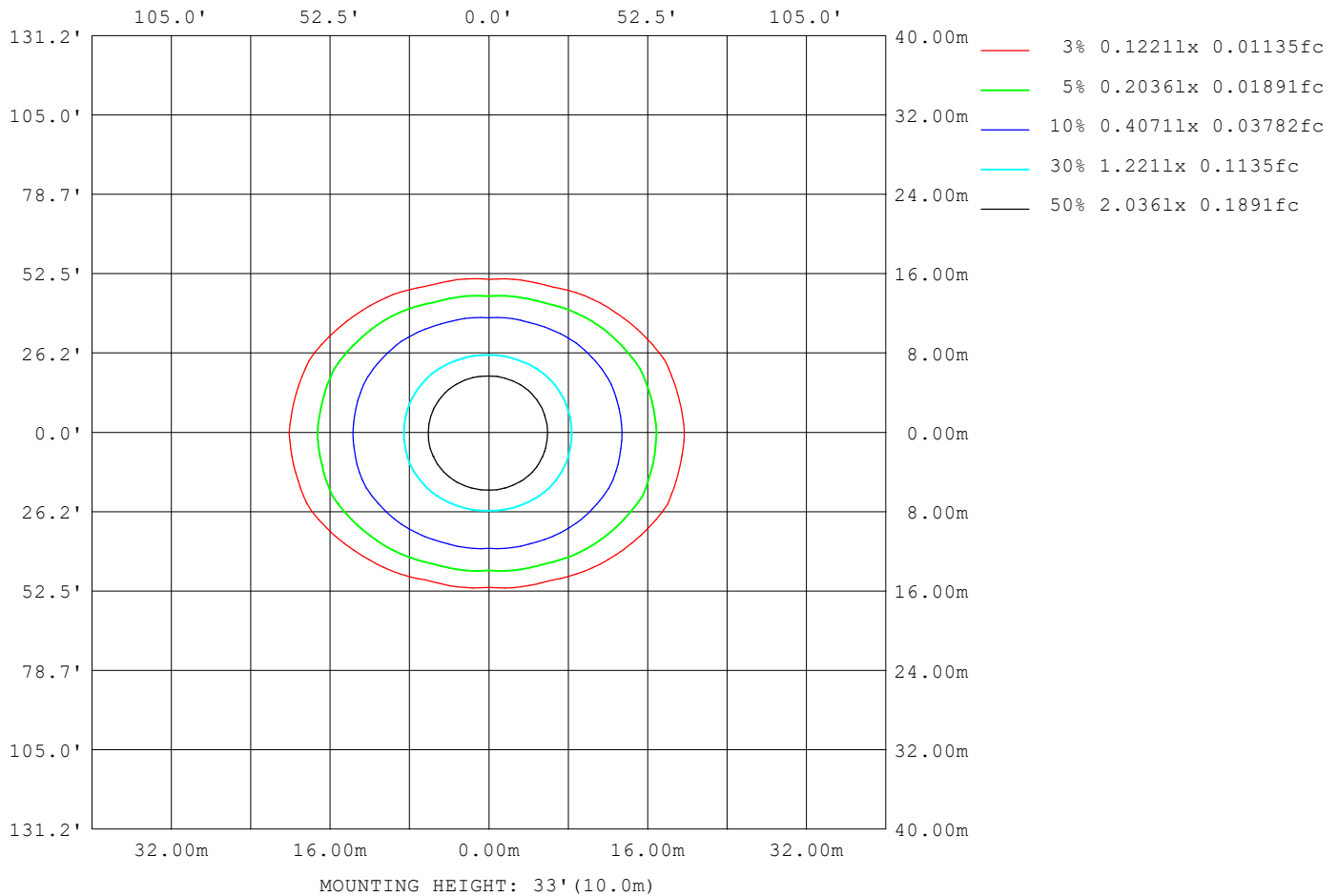
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007	AKTYPE: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:239.99V I:0.1081A P:17.254W PF:0.6649 Freq:50.08Hz Lamp Flux:898.395x1 lm		
NAME: SUPER MINI SKIRT SUS_1085_WHT_OPAL V_DPAL-007	_4KTYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

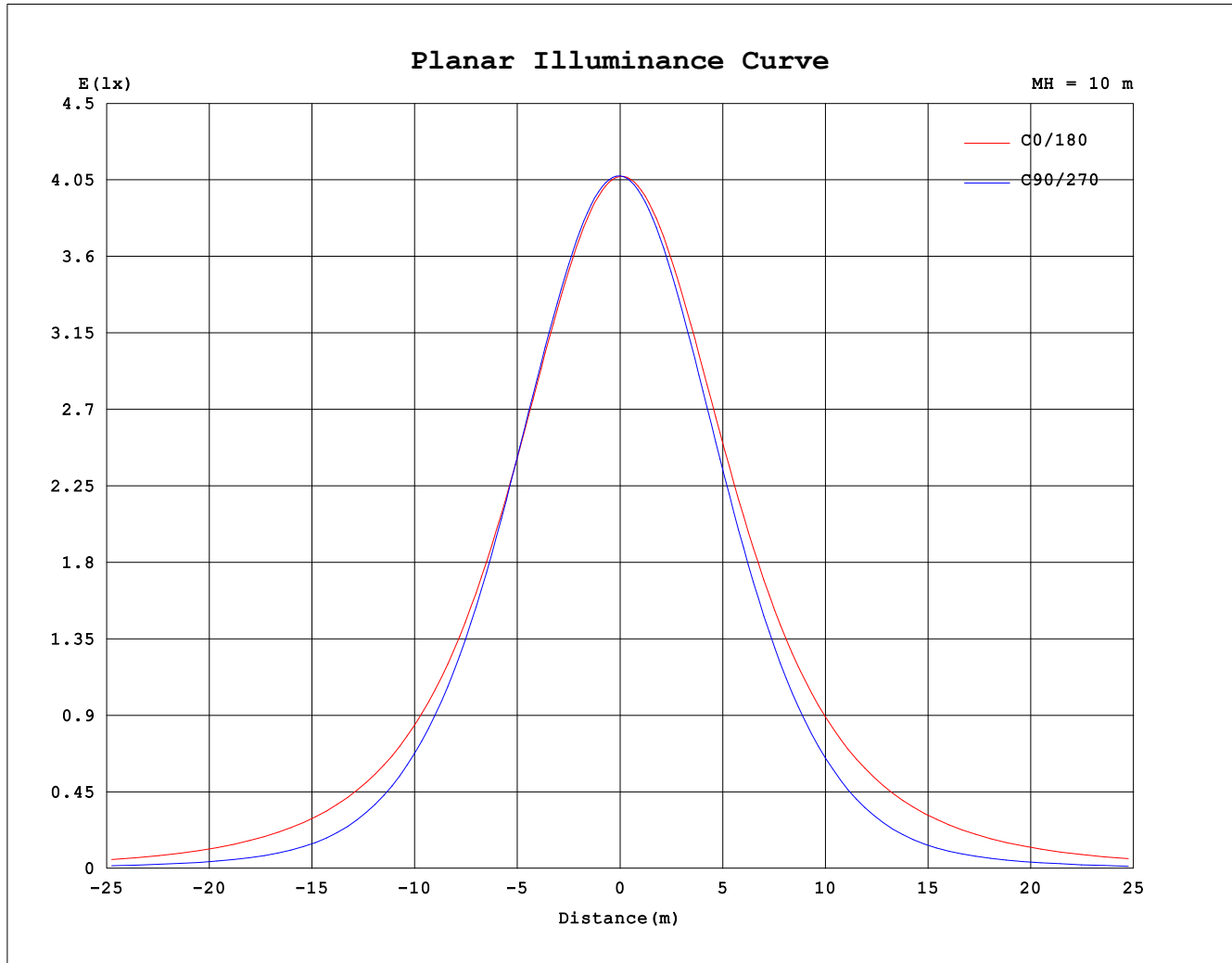
AvgL	cd/m2
L_0~180 (65) av	10101
L_0~180 (75) av	8503
L_0~180 (85) av	5042
L_90~270 (65) av	3119
L_90~270 (75) av	1808
L_90~270 (85) av	958
L_45 (65) av	5314
L_45 (75) av	2371
L_45 (85) av	1148

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

```