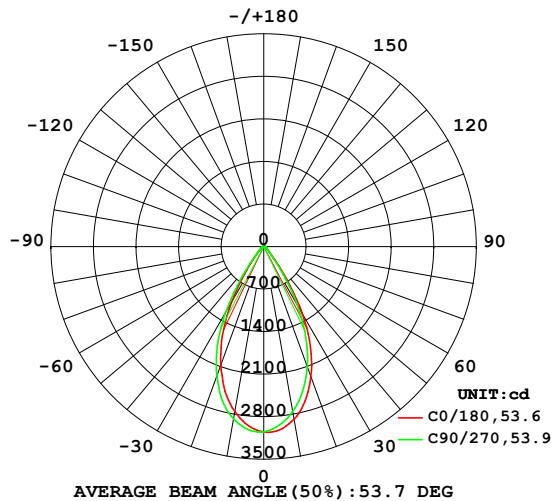


LUMINAIRE PHOTOMETRIC TEST REPORT

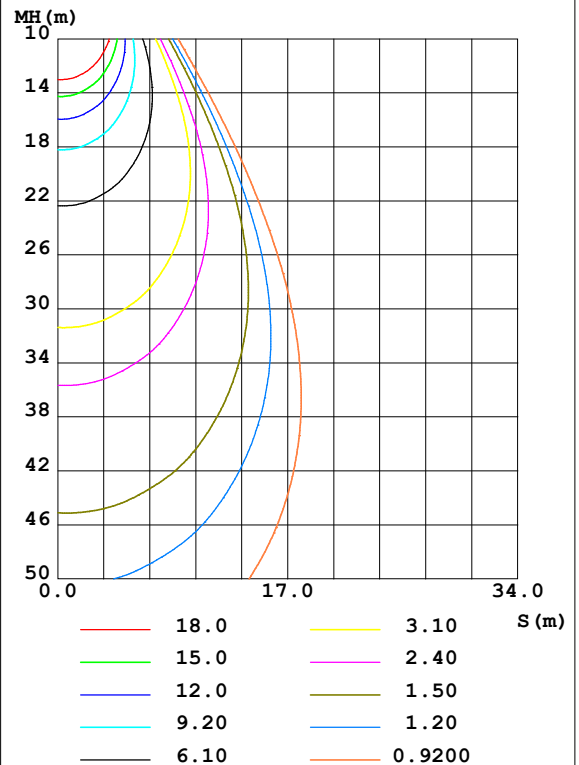
Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K_CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.81 lm/W			
SLE_09MM_MODEL_940_ADV8_CRI90_QTYx2		Imax(cd)	3060	S/MH(C0/180)	0.79
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	2399.3	η UP,DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	2399.29	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220.0	η down(%)	100.0	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [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	2882	2816	2757	2721	2755	2816	2877	2914	0- 10	279.7	279.7	11.7,11.7
20	2276	2185	2100	2046	2067	2165	2259	2314	10- 20	707.5	987.3	41.1,41.1
30	1267	1183	1097	1038	1067	1163	1264	1319	20- 30	776.7	1764	73.5,73.5
40	287.0	261.1	245.3	237.2	253.7	275.4	295.9	309.7	30- 40	399.1	2163	90.2,90.2
50	91.27	86.71	84.22	83.51	87.45	91.26	94.59	95.93	40- 50	117.8	2281	95.1,95.1
60	42.91	41.78	41.37	40.96	41.91	42.83	43.63	44.15	50- 60	54.55	2335	97.3,97.3
70	26.73	26.20	25.99	25.80	26.27	26.90	27.20	27.30	60- 70	33.30	2369	98.7,98.7
80	15.56	15.12	14.77	14.60	15.11	15.73	16.01	16.01	70- 80	22.12	2391	99.6,99.6
90	0.1209	0.1173	0.1173	0.1173	0.1026	0.1246	0.1393	0.1319	80- 90	8.423	2399	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): 2235.2 lm

%lum = 93.2%

%lamp = 93.2%

Conical surface Flux(120deg): 2335.4 lm

%lum = 97.3%

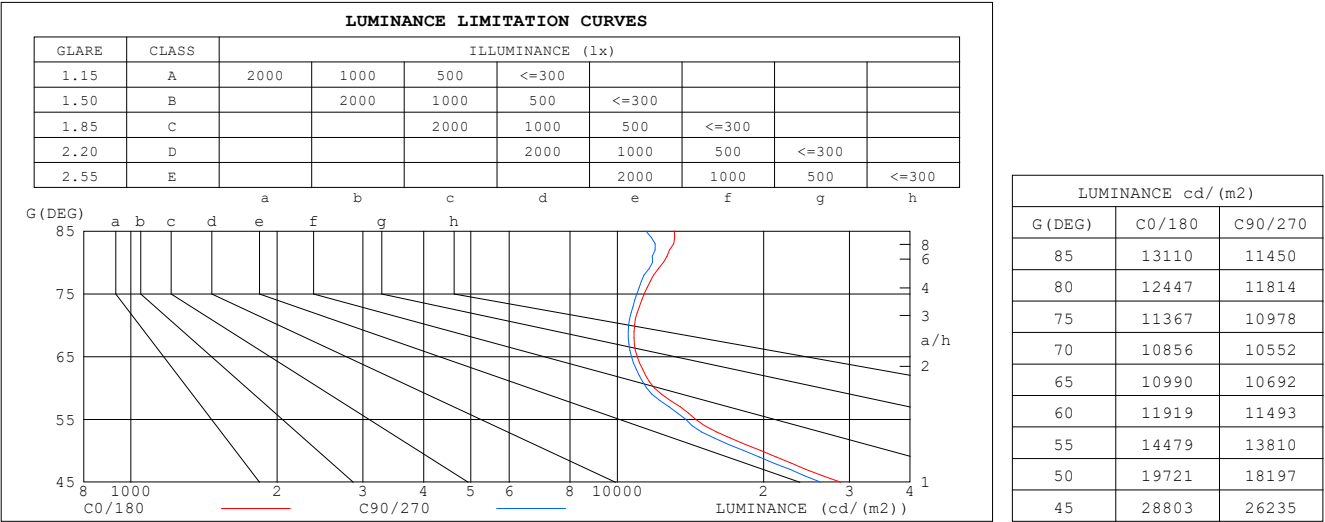
%lamp = 97.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



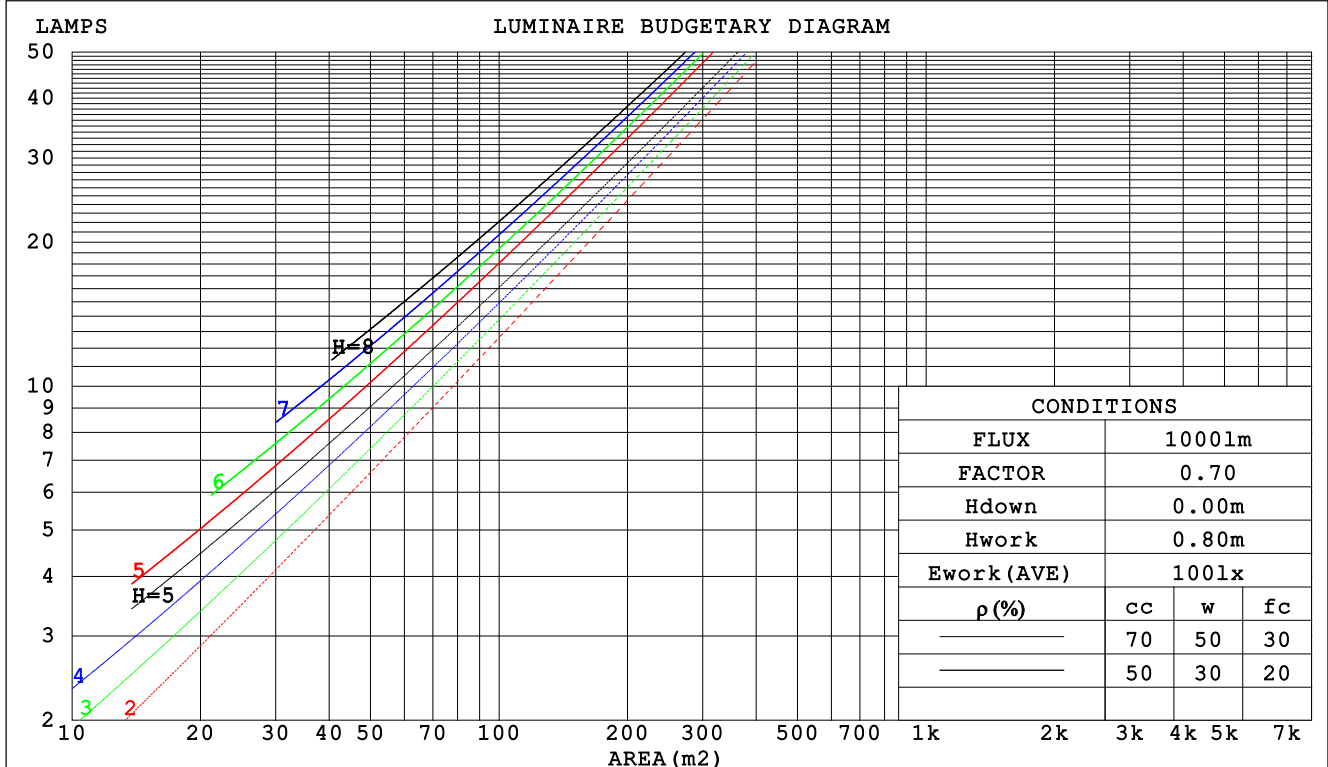
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.90	.86	.94	.89	.86	.91	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.63	.71	.67	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.57	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55
10.0	.63	.57	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.52



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	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	.186 .106 .034	.179 .102 .032	.167 .096 .031	.155 .089 .029	.144 .084 .027	
2.0	.176 .097 .030	.171 .094 .029	.160 .089 .028	.150 .084 .026	.141 .080 .025	
3.0	.167 .089 .027	.162 .087 .026	.153 .083 .025	.144 .079 .024	.136 .076 .023	
4.0	.158 .082 .024	.153 .080 .024	.146 .077 .023	.138 .074 .022	.131 .071 .022	
5.0	.149 .076 .022	.146 .075 .022	.139 .072 .021	.133 .070 .021	.127 .068 .020	
6.0	.142 .071 .020	.139 .070 .020	.133 .068 .020	.127 .066 .019	.122 .064 .019	
7.0	.135 .067 .019	.132 .066 .019	.127 .064 .019	.122 .063 .018	.117 .061 .018	
8.0	.129 .063 .018	.127 .062 .018	.122 .061 .017	.117 .059 .017	.113 .058 .017	
9.0	.123 .060 .017	.121 .059 .017	.117 .058 .016	.113 .057 .016	.109 .055 .016	
10.0	.118 .057 .016	.116 .056 .016	.112 .055 .015	.109 .054 .015	.105 .053 .015	

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	.172 .157 .144	.147 .135 .124	.101 .093 .086	.058 .054 .050	.019 .017 .016	
2.0	.157 .132 .112	.134 .114 .097	.092 .079 .068	.053 .046 .040	.017 .015 .013	
3.0	.145 .114 .089	.124 .098 .077	.085 .068 .054	.049 .040 .032	.016 .013 .010	
4.0	.134 .099 .072	.115 .085 .063	.079 .060 .044	.046 .035 .026	.015 .011 .009	
5.0	.126 .087 .059	.108 .076 .052	.074 .053 .036	.043 .031 .022	.014 .010 .007	
6.0	.118 .078 .049	.101 .068 .043	.070 .047 .030	.041 .028 .018	.013 .009 .006	
7.0	.111 .071 .042	.096 .061 .037	.066 .043 .026	.038 .025 .015	.012 .008 .005	
8.0	.106 .064 .036	.091 .056 .031	.063 .039 .022	.037 .023 .013	.012 .008 .004	
9.0	.100 .059 .031	.087 .051 .027	.060 .036 .019	.035 .021 .012	.011 .007 .004	
10.0	.096 .055 .027	.083 .047 .024	.057 .033 .017	.033 .020 .010	.011 .006 .003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm										
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA						TYPE:		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						19.5	20.5	19.8	20.7	20.8
4H						19.8	20.7	20.0	20.9	21.1
6H						20.0	20.8	20.2	21.0	21.3
8H						20.2	21.0	20.5	21.2	21.5
12H						20.3	21.0	20.6	21.3	21.6
20.8						20.3	21.1	20.7	21.3	21.6
4H 2H						19.5	20.3	19.8	20.5	20.8
3H						19.9	20.6	20.2	20.9	21.2
4H						20.2	20.9	20.6	21.2	21.5
6H						20.6	21.2	20.9	21.5	21.8
8H						20.7	21.3	21.1	21.6	22.0
12H						20.9	21.4	21.3	21.7	22.1
8H 4H						20.3	20.8	20.7	21.2	21.6
6H						20.8	21.2	21.2	21.6	22.1
8H						21.1	21.5	21.5	21.9	22.3
12H						21.3	21.6	21.7	22.1	22.5
12H 4H						20.3	20.8	20.7	21.2	21.6
6H						20.8	21.2	21.3	21.7	22.1
8H						21.1	21.5	21.6	21.9	22.4
Variations with the observer position at spacings:										
S = 1.0H		+ 1.8 / - 1.5				+ 1.4 / - 1.3				
1.5H		+ 3.3 / - 1.3				+ 2.6 / - 1.1				
2.0H		+ 1.5 / - 0.6				+ 1.3 / - 0.6				

CIE Pub.117 Corrected 2399 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.0)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

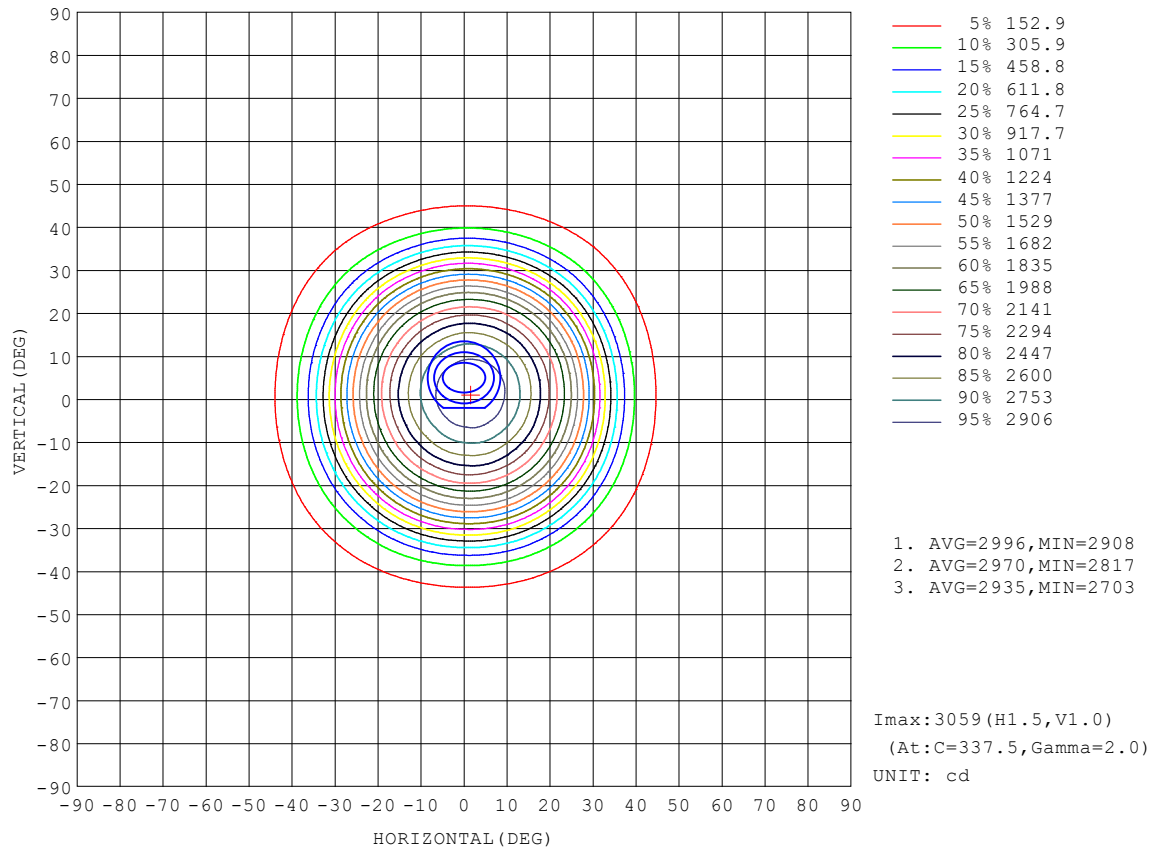
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	96	93	101	96	92	99	95	91	87
1.50	105	100	96	103	99	96	101	97	94	90
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	97
5.00	115	112	110	112	110	109	108	107	105	98
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: 27 November 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.889m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

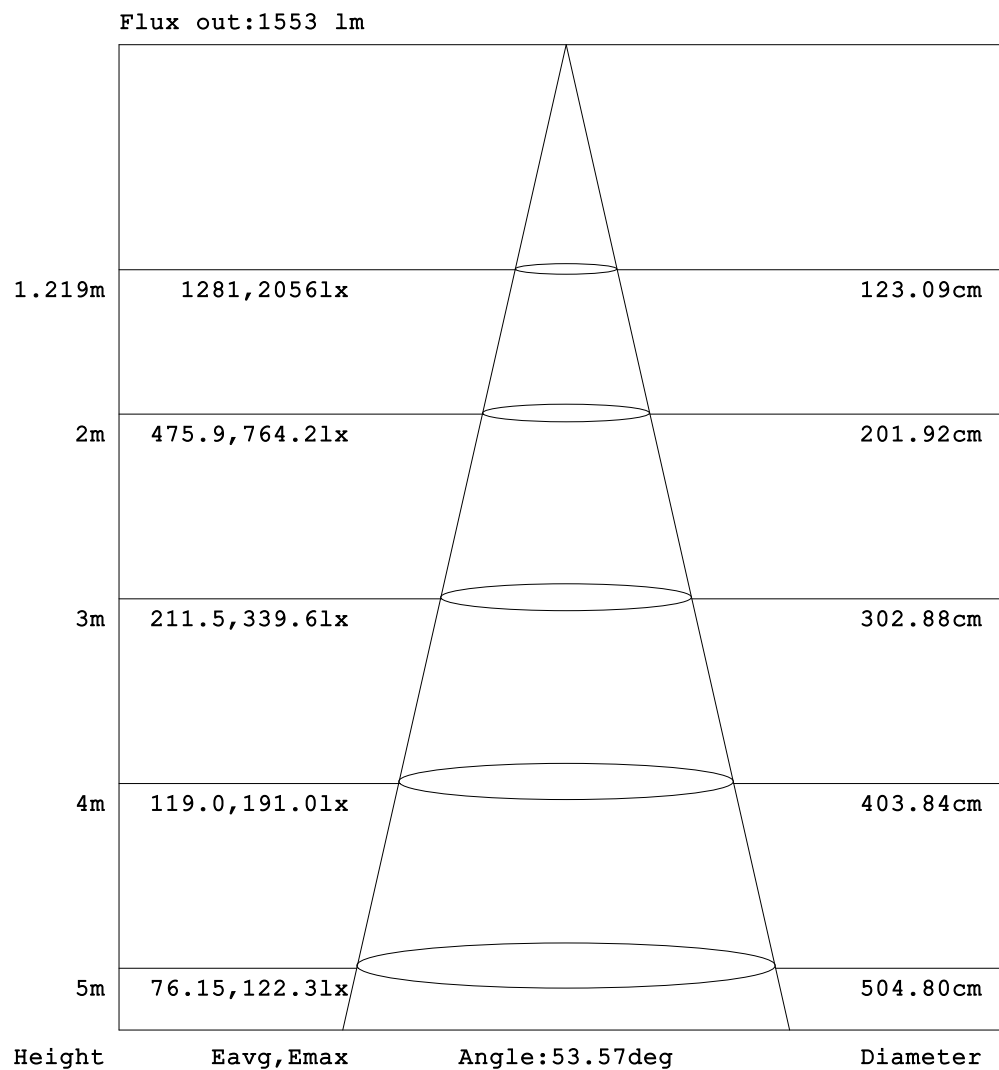


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



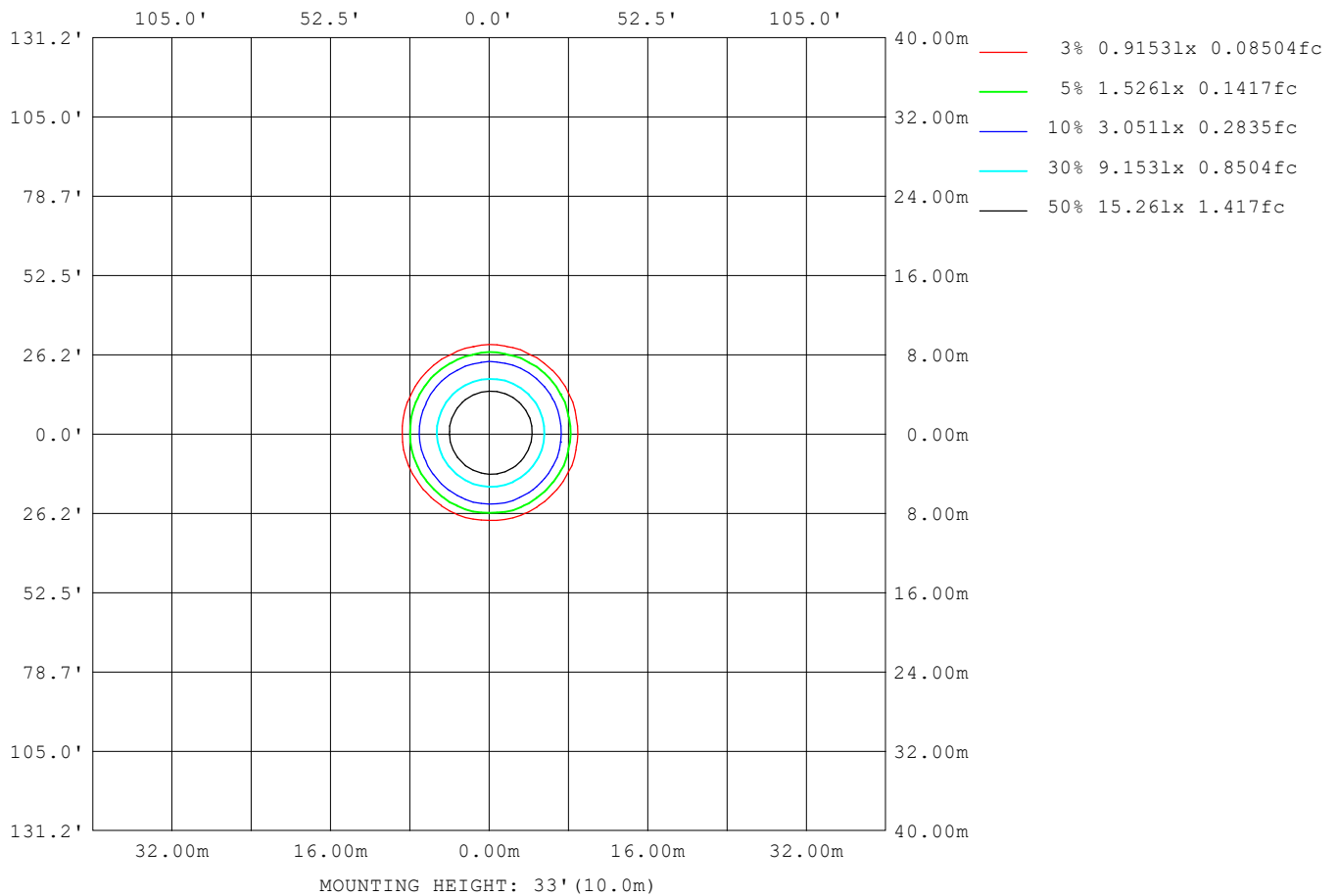
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.889m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	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:27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.0V I:0.1100A P:24.28W PF:0.9200 Lamp Flux:2399.29x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_55DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

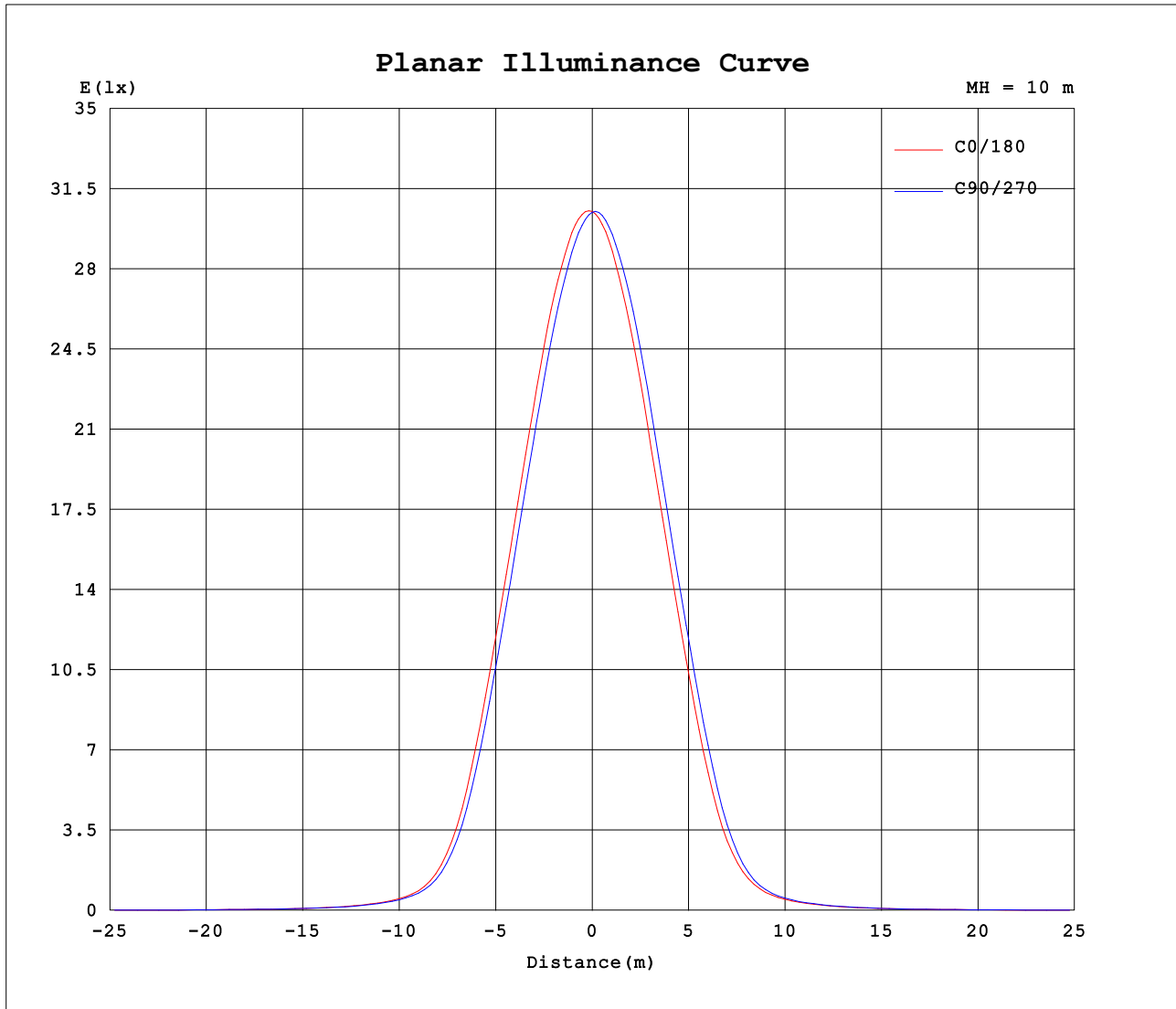
AvgL	cd/m2
L_0~180 (65) av	10887
L_0~180 (75) av	11241
L_0~180 (85) av	12544
L_90~270 (65) av	10936
L_90~270 (75) av	11278
L_90~270 (85) av	12584
L_45 (65) av	10919
L_45 (75) av	11265
L_45 (85) av	12577

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [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: 27 November 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.889m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.889m [K=1.0000]
Remarks:

```