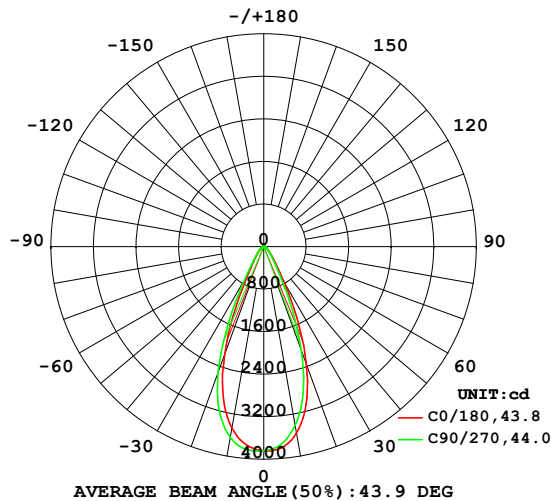


LUMINAIRE PHOTOMETRIC TEST REPORT

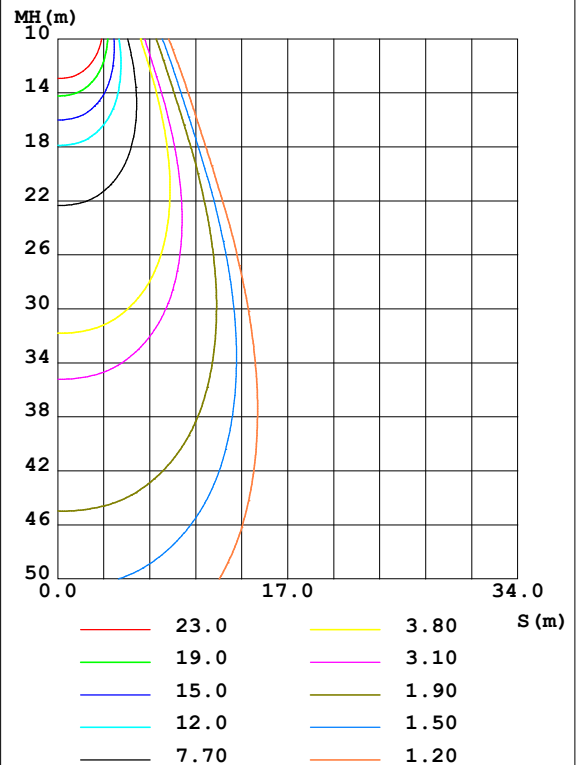
Test:U:240.0V I:0.1100A P:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_4000K_CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.71 lm/W			
SLE_09MM_MODEL_940_ADV8_CRI90_QTYx2		Imax(cd)	3851	S/MH(C0/180)	0.65
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.70
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	2300.3	η UP,DN(C0-180)	0.0,48.1
NOMINAL FLUX(lm)	2300.34	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220.0	η down(%)	100.0	CIBSE SHR MAX	0.70

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	3559	3470	3412	3400	3464	3559	3639	3634	0- 10	352.2	352.2	15.3,15.3
20	2349	2172	2072	2052	2159	2344	2516	2486	10- 20	826.2	1178	51.2,51.2
30	746.7	654.5	580.4	532.9	557.3	629.9	729.3	778.9	20- 30	621.3	1800	78.2,78.2
40	243.8	229.8	215.7	204.8	206.9	219.4	235.0	246.9	30- 40	235.6	2035	88.5,88.5
50	115.8	110.8	106.9	105.4	108.3	112.8	117.3	119.0	40- 50	123.4	2159	93.8,93.8
60	51.92	50.21	49.83	49.63	50.92	52.45	53.57	53.57	50- 60	68.78	2228	96.8,96.8
70	31.04	30.16	29.98	29.79	30.40	31.50	32.11	31.93	60- 70	39.61	2267	98.6,98.6
80	16.39	15.79	15.42	15.27	15.89	16.74	17.17	17.10	70- 80	24.59	2292	99.6,99.6
90	0.1429	0.1356	0.1356	0.1319	0.1190	0.1209	0.1576	0.1832	80- 90	8.618	2300	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): 2104.6 lm

%lum = 91.5%

%lamp = 91.5%

Conical surface Flux(120deg): 2227.5 lm

%lum = 96.8%

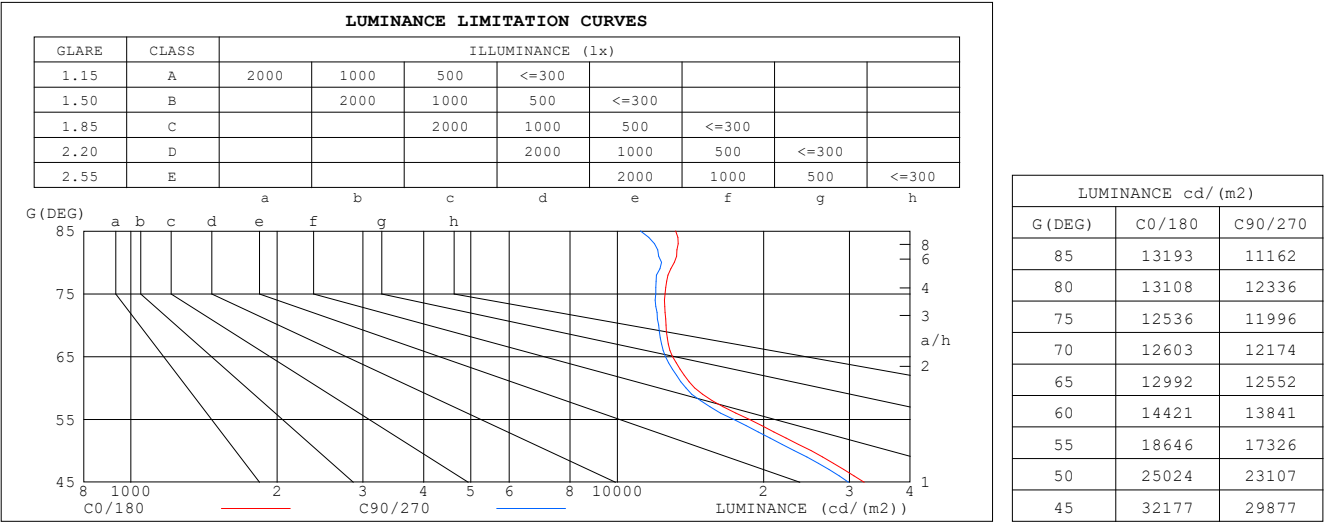
%lamp = 96.8%

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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



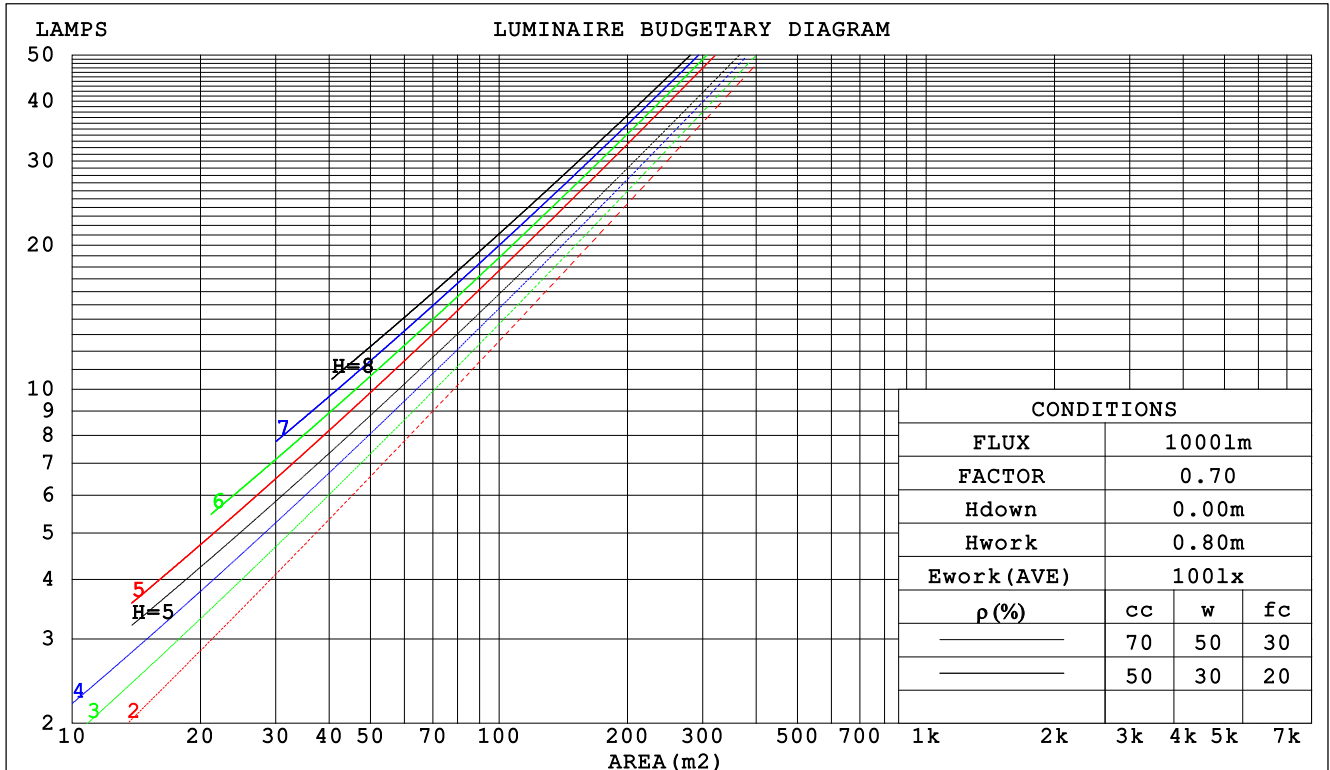
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.92	.95	.93	.90	.92	.90	.89	.87
3.0	.96	.92	.88	.95	.91	.87	.92	.89	.86	.90	.87	.84	.88	.85	.83	.81
4.0	.91	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.84	.80	.78	.76
5.0	.85	.80	.76	.84	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.74	.69	.66	.72	.69	.66	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.62	.61
9.0	.69	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.64	.60	.57	.56



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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_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	.181	.103	.033	.175	.100	.032	.162	.093	.030	.150	.087	.028	.140	.081	.026		
2.0	.171	.094	.029	.165	.091	.028	.155	.086	.027	.145	.081	.025	.136	.077	.024		
3.0	.161	.085	.026	.156	.083	.025	.147	.080	.024	.138	.076	.023	.131	.072	.022		
4.0	.151	.079	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021		
5.0	.143	.073	.021	.139	.071	.021	.133	.069	.020	.126	.067	.020	.120	.064	.019		
6.0	.135	.068	.019	.132	.067	.019	.126	.065	.019	.121	.063	.018	.116	.061	.018		
7.0	.128	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017		
8.0	.122	.060	.017	.120	.059	.017	.115	.058	.016	.111	.056	.016	.107	.055	.016		
9.0	.117	.056	.016	.115	.056	.016	.110	.055	.015	.107	.053	.015	.103	.052	.015		
10.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.102	.051	.014	.099	.050	.014		

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	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009		
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.116	.078	.050	.099	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006		
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005		
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004		
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.093	.054	.028	.080	.047	.024	.055	.033	.017	.032	.019	.010	.010	.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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm										
NAME: DOUBLE_DOWN_NA_WHT_35DEG_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					Viewed endwise				
x = 2H y = 2H	19.0	19.9	19.2	20.1	20.2	18.6	19.5	18.8	19.7	19.8
3H	19.5	20.4	19.8	20.6	20.8	19.2	20.0	19.4	20.2	20.4
4H	19.8	20.6	20.1	20.8	21.1	19.5	20.3	19.8	20.5	20.7
6H	20.1	20.9	20.4	21.1	21.4	19.8	20.5	20.1	20.8	21.0
8H	20.3	21.0	20.6	21.3	21.5	19.9	20.6	20.2	20.9	21.2
12H	20.4	21.1	20.7	21.3	21.6	20.0	20.7	20.3	21.0	21.2
4H 2H	19.1	19.9	19.4	20.1	20.3	18.7	19.5	19.0	19.8	20.0
3H	19.8	20.5	20.2	20.8	21.1	19.5	20.2	19.8	20.5	20.8
4H	20.3	20.9	20.6	21.2	21.5	20.0	20.6	20.3	20.9	21.2
6H	20.7	21.3	21.1	21.6	22.0	20.4	21.0	20.8	21.3	21.7
8H	20.9	21.5	21.3	21.8	22.2	20.6	21.2	21.0	21.5	21.9
12H	21.1	21.6	21.5	22.0	22.3	20.8	21.2	21.2	21.6	22.0
8H 4H	20.4	20.9	20.8	21.3	21.7	20.1	20.7	20.5	21.0	21.4
6H	21.0	21.5	21.5	21.8	22.3	20.8	21.2	21.2	21.6	22.0
8H	21.3	21.7	21.8	22.1	22.6	21.0	21.4	21.5	21.8	22.3
12H	21.6	21.9	22.0	22.3	22.8	21.3	21.6	21.7	22.0	22.5
12H 4H	20.4	20.9	20.8	21.3	21.7	20.1	20.6	20.6	21.0	21.4
6H	21.1	21.4	21.5	21.9	22.3	20.8	21.2	21.3	21.6	22.0
8H	21.4	21.7	21.9	22.2	22.6	21.1	21.5	21.6	21.9	22.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.8					+ 0.6 / - 0.8				
1.5H	+ 1.2 / - 0.7					+ 0.8 / - 0.6				
2.0H	+ 1.3 / - 0.8					+ 1.3 / - 0.8				

CIE Pub.117 Corrected 2300 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.9)

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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

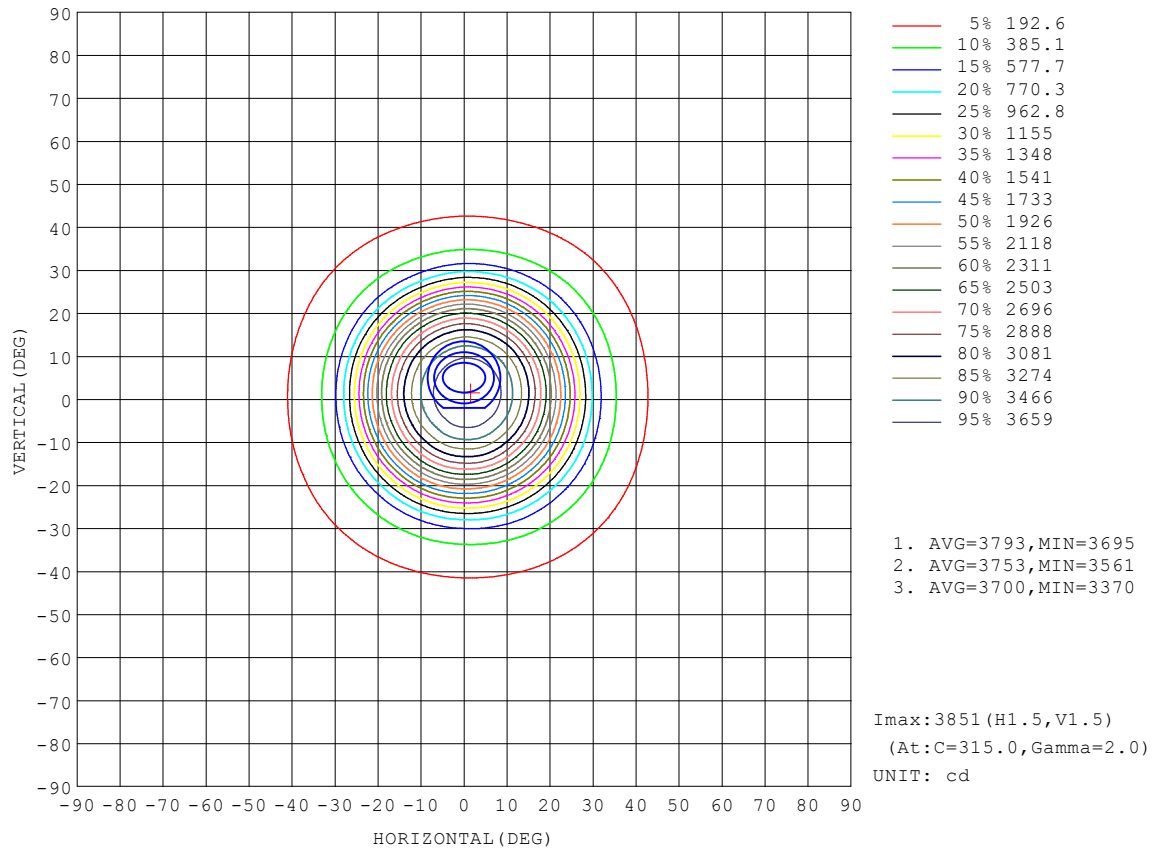
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	78	73	84	77	73	83	77	73	69
0.80	92	86	82	91	85	81	90	85	81	77
1.00	97	91	87	96	90	86	94	90	86	82
1.25	101	95	92	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	101	98	103	99	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	105	97
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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

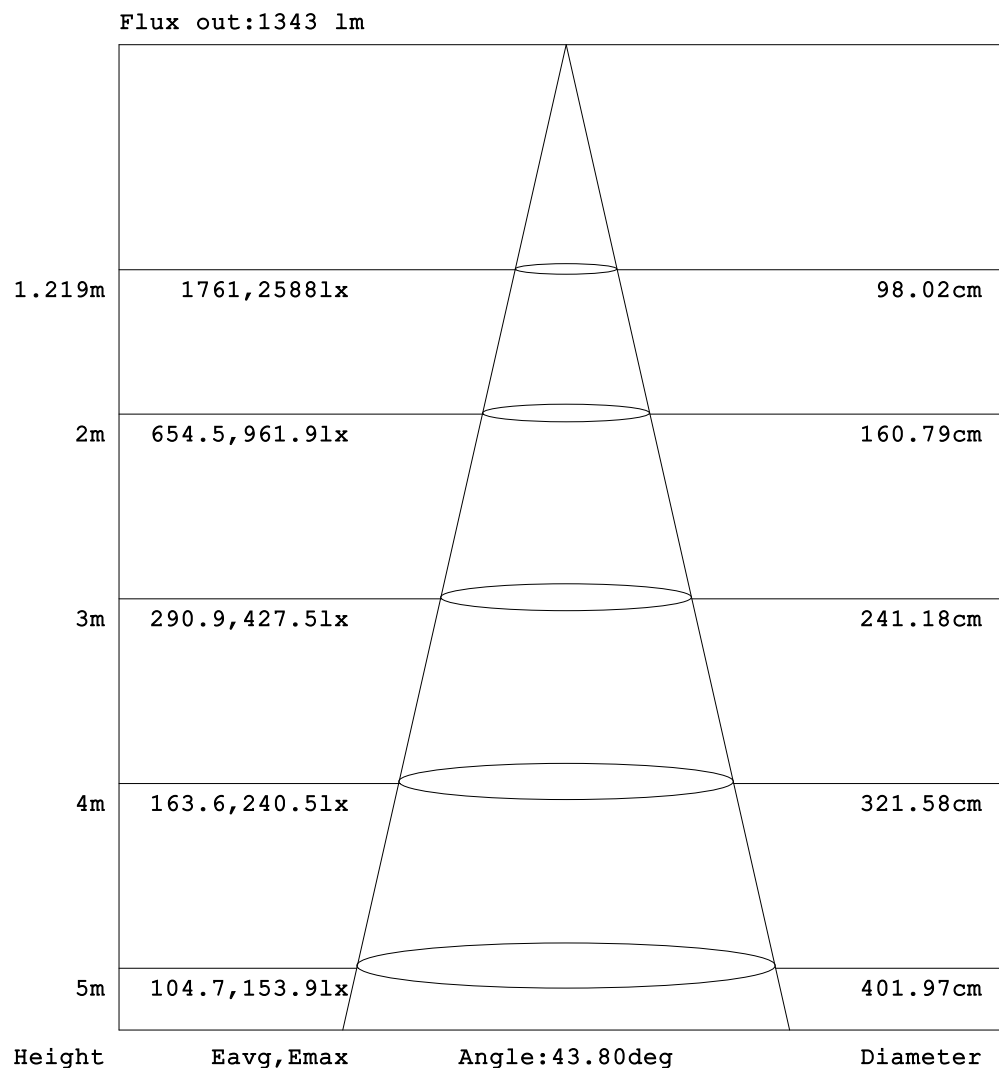


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



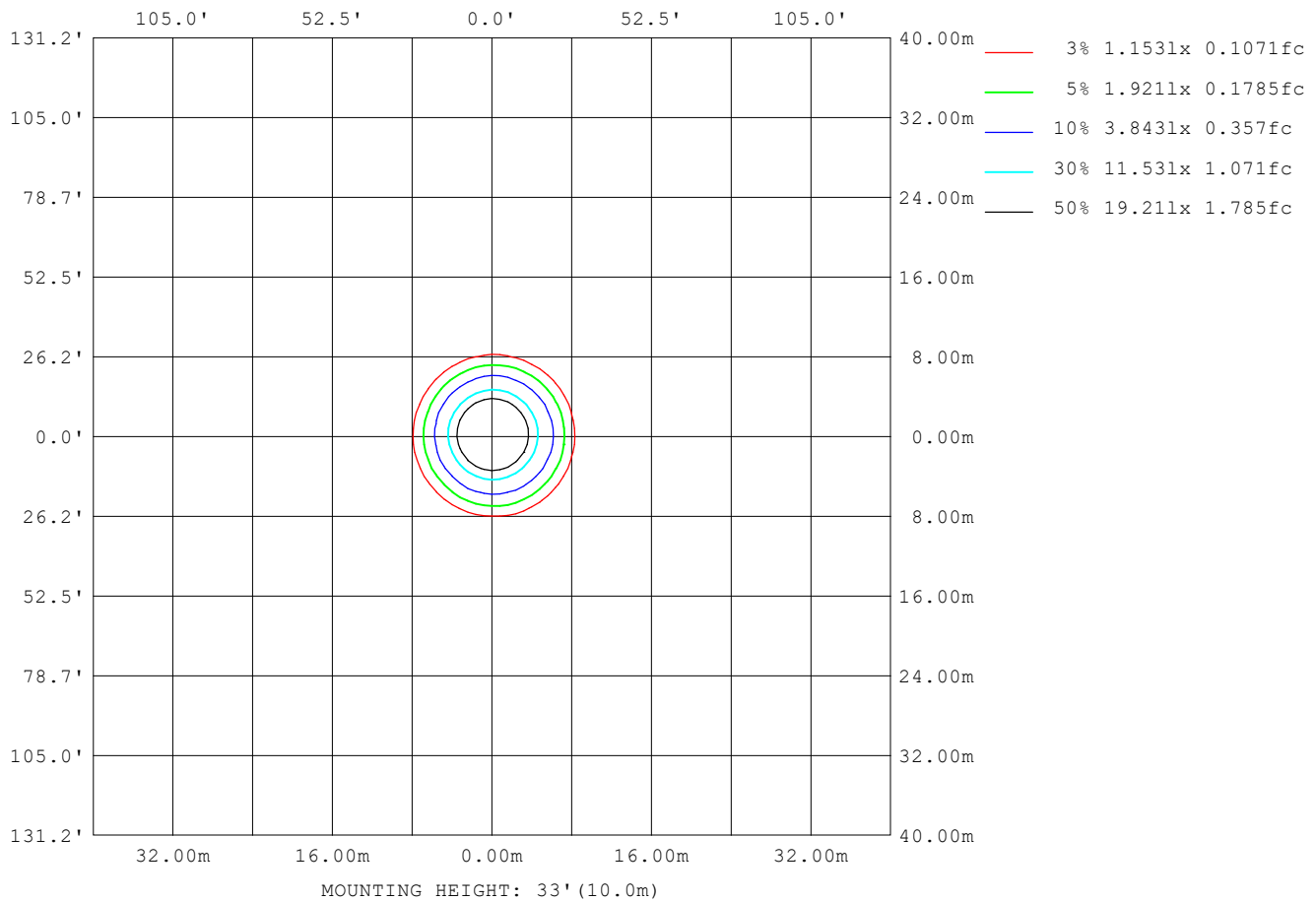
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_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:24.29W PF:0.9201 Lamp Flux:2300.34x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_35DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

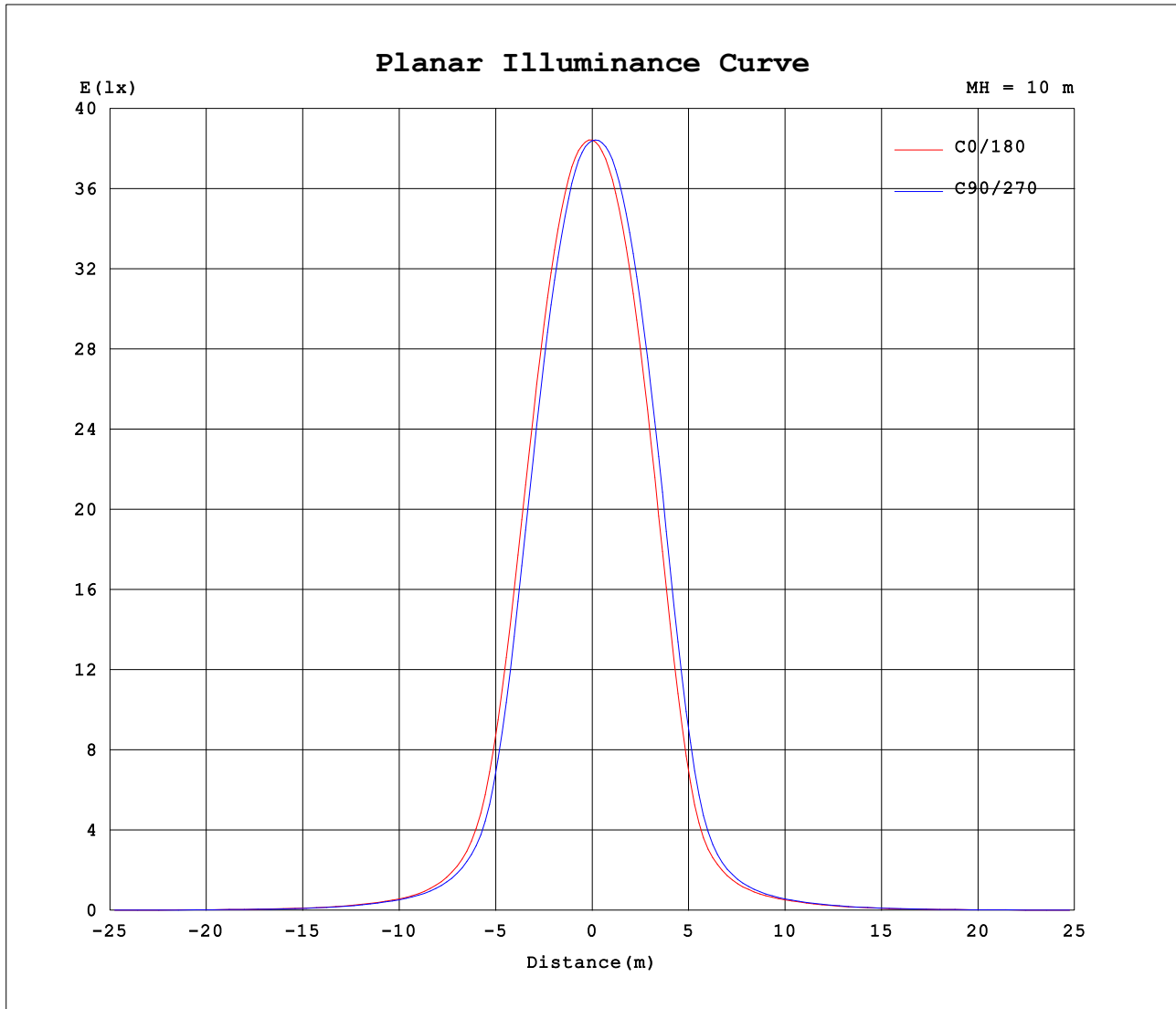
AvgL	cd/m2
L_0~180 (65) av	12895
L_0~180 (75) av	12397
L_0~180 (85) av	12579
L_90~270 (65) av	13026
L_90~270 (75) av	12498
L_90~270 (85) av	12618
L_45 (65) av	12954
L_45 (75) av	12441
L_45 (85) av	12621

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:

```

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