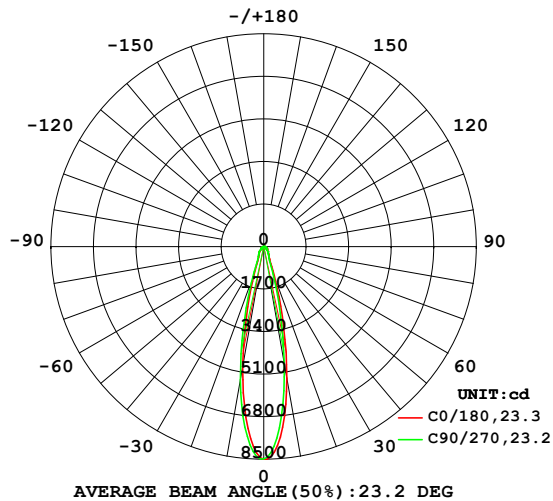


LUMINAIRE PHOTOMETRIC TEST REPORT

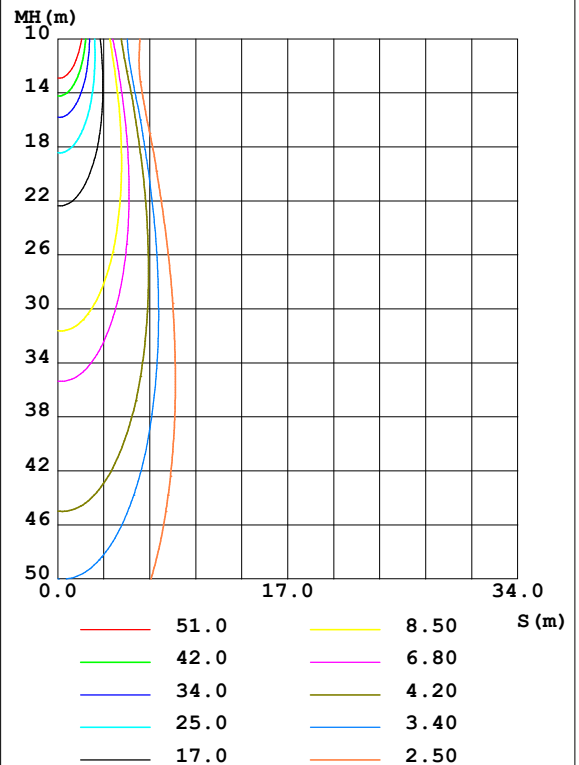
Test:U:240.0V I:0.1100A P:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_4000K_CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.65 lm/W			
SLE_09MM_MODEL_940_ADV8_CRI90_QTYx2		Imax(cd)	8510	S/MH(C0/180)	0.38
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	2251.0	η UP,DN(C0-180)	0.0,48.3
NOMINAL FLUX(lm)	2250.97	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220.0	η down(%)	100.0	CIBSE SHR MAX	1.00

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	5340	4998	4729	4642	4865	5155	5400	5486	0- 10	633.7	633.7	28.2,28.2
20	1239	1065	986.4	970.6	1023	1163	1295	1347	10- 20	739.1	1373	61,61
30	422.8	411.5	405.8	404.9	408.0	417.5	428.2	432.7	20- 30	281.6	1654	73.5,73.5
40	273.9	269.8	267.9	263.3	268.8	275.0	279.5	278.7	30- 40	211.1	1865	82.9,82.9
50	153.4	150.5	149.7	146.7	148.1	153.6	158.3	156.5	40- 50	150.4	2016	89.6,89.6
60	103.5	99.10	96.69	96.28	98.76	102.5	105.4	106.2	50- 60	114.1	2130	94.6,94.6
70	53.22	51.36	50.52	50.22	51.20	52.70	53.95	54.10	60- 70	72.39	2202	97.8,97.8
80	21.05	20.01	19.45	19.16	19.66	20.57	21.13	21.54	70- 80	38.24	2241	99.5,99.5
90	0.2199	0.1979	0.1979	0.1979	0.1759	0.1832	0.2419	0.2419	80- 90	10.33	2251	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): 1950.2 lm

%lum = 86.6%
%lamp = 86.6%

Conical surface Flux(120deg): 2130 lm

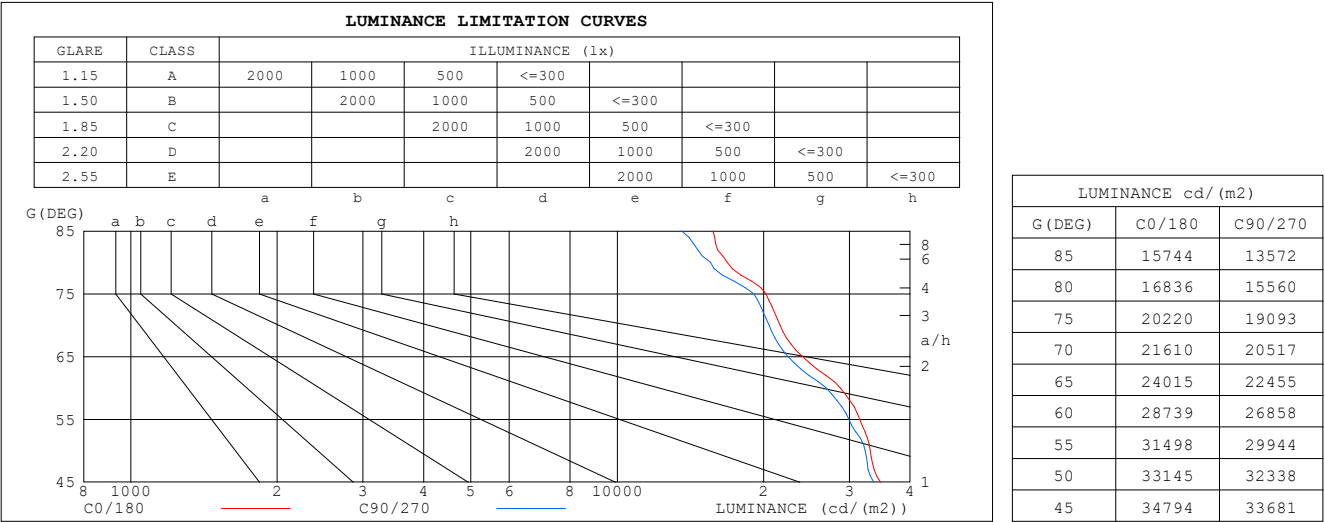
%lum = 94.6%
%lamp = 94.6%

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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



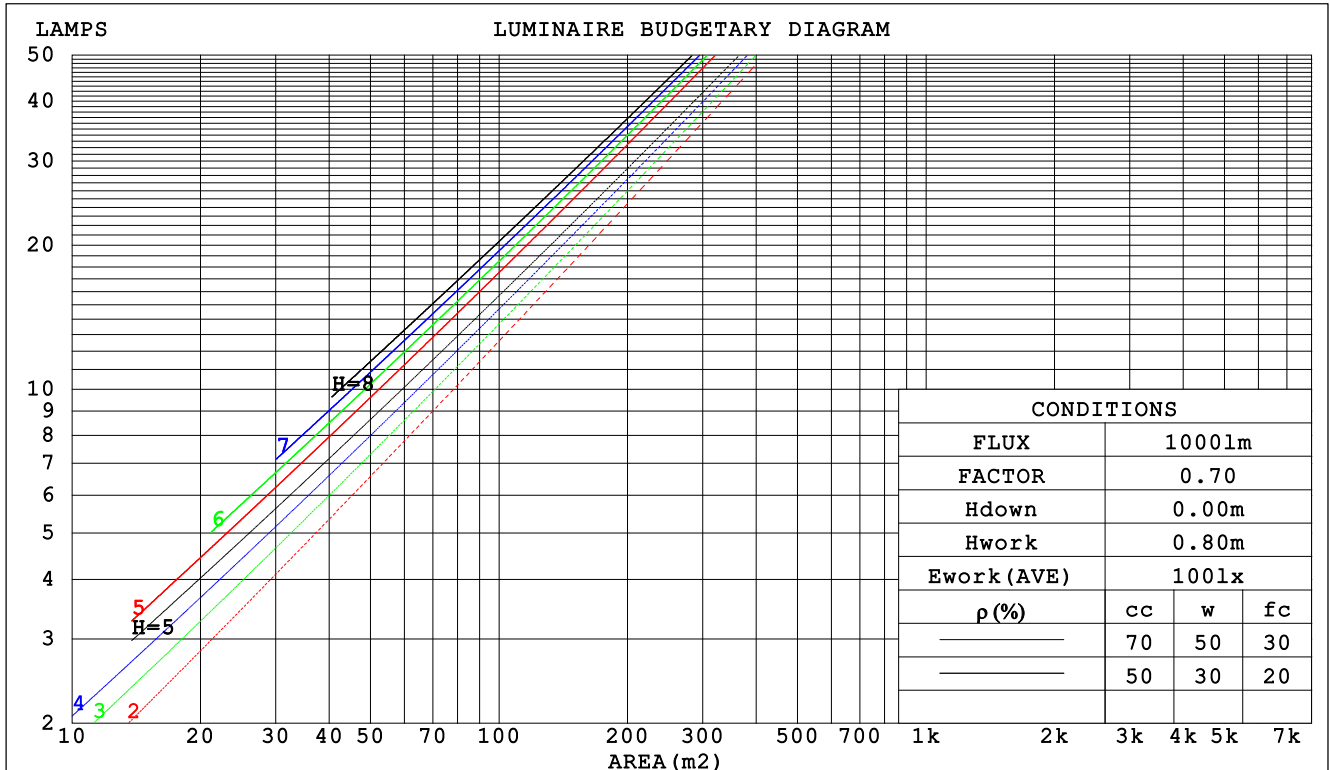
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_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	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.84	.88	.85	.83	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.81	.77	.85	.80	.76	.84	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.82	.77	.73	.81	.76	.72	.80	.75	.72	.79	.75	.71	.77	.74	.71	.70
7.0	.79	.73	.69	.78	.73	.69	.77	.72	.69	.76	.71	.68	.74	.71	.68	.67
8.0	.75	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.64
9.0	.72	.67	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.69	.66	.63	.62
10.0	.70	.65	.61	.69	.65	.61	.69	.64	.61	.68	.64	.61	.67	.64	.61	.60



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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_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	.183	.104	.033	.176	.101	.032	.164	.094	.030	.152	.088	.028	.141	.082	.026		
2.0	.172	.094	.029	.166	.091	.028	.155	.086	.027	.146	.082	.026	.136	.077	.024		
3.0	.160	.085	.025	.155	.083	.025	.146	.079	.024	.138	.075	.023	.130	.072	.022		
4.0	.149	.077	.023	.145	.076	.022	.137	.073	.022	.130	.070	.021	.123	.067	.020		
5.0	.139	.071	.021	.136	.070	.020	.129	.067	.020	.123	.065	.019	.117	.063	.019		
6.0	.131	.066	.019	.128	.065	.019	.122	.062	.018	.117	.061	.018	.111	.059	.017		
7.0	.123	.061	.017	.121	.060	.017	.115	.058	.017	.111	.057	.016	.106	.055	.016		
8.0	.116	.057	.016	.114	.056	.016	.109	.055	.016	.105	.053	.015	.101	.052	.015		
9.0	.110	.053	.015	.108	.053	.015	.104	.051	.015	.100	.050	.014	.097	.049	.014		
10.0	.105	.050	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014	.093	.047	.013		

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	.100	.093	.086	.058	.054	.050	.019	.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	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.015	.011	.009		
5.0	.123	.087	.061	.105	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.114	.077	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006		
7.0	.107	.070	.044	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.100	.063	.038	.086	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005		
9.0	.095	.058	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004		
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004		

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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm										
NAME: DOUBLE_DOWN_NA_WHT_25DEG_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	21.2	22.1	21.4	22.2	22.4	21.0	21.9	21.2	22.0	22.2
3H	22.1	22.9	22.4	23.1	23.3	21.9	22.7	22.2	22.9	23.1
4H	22.5	23.3	22.8	23.5	23.8	22.3	23.1	22.6	23.3	23.5
6H	22.8	23.6	23.1	23.8	24.0	22.6	23.3	22.9	23.5	23.8
8H	22.9	23.6	23.2	23.9	24.1	22.6	23.3	22.9	23.6	23.9
12H	22.9	23.6	23.3	23.9	24.2	22.7	23.4	23.0	23.6	23.9
4H 2H	21.6	22.4	21.9	22.6	22.8	21.4	22.2	21.7	22.4	22.6
3H	22.7	23.4	23.0	23.7	23.9	22.5	23.2	22.8	23.5	23.7
4H	23.2	23.9	23.6	24.2	24.5	23.0	23.7	23.4	24.0	24.3
6H	23.6	24.2	24.0	24.5	24.8	23.4	23.9	23.7	24.3	24.6
8H	23.7	24.2	24.1	24.6	25.0	23.5	24.0	23.9	24.3	24.7
12H	23.8	24.3	24.2	24.7	25.0	23.5	24.0	24.0	24.4	24.8
8H 4H	23.4	23.9	23.8	24.2	24.6	23.2	23.7	23.6	24.1	24.4
6H	23.8	24.3	24.3	24.7	25.1	23.6	24.1	24.1	24.5	24.9
8H	24.0	24.4	24.5	24.8	25.3	23.8	24.2	24.2	24.6	25.0
12H	24.2	24.5	24.6	25.0	25.4	23.9	24.3	24.4	24.7	25.2
12H 4H	23.4	23.8	23.8	24.2	24.6	23.2	23.7	23.6	24.0	24.4
6H	23.9	24.2	24.3	24.7	25.1	23.7	24.0	24.1	24.5	24.9
8H	24.1	24.4	24.5	24.8	25.3	23.8	24.2	24.3	24.6	25.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				

CIE Pub.117 Corrected 2251 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.8)

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:

UTILIZATION FACTORS TABLE

Test:U:240.0V I:0.1100A P:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

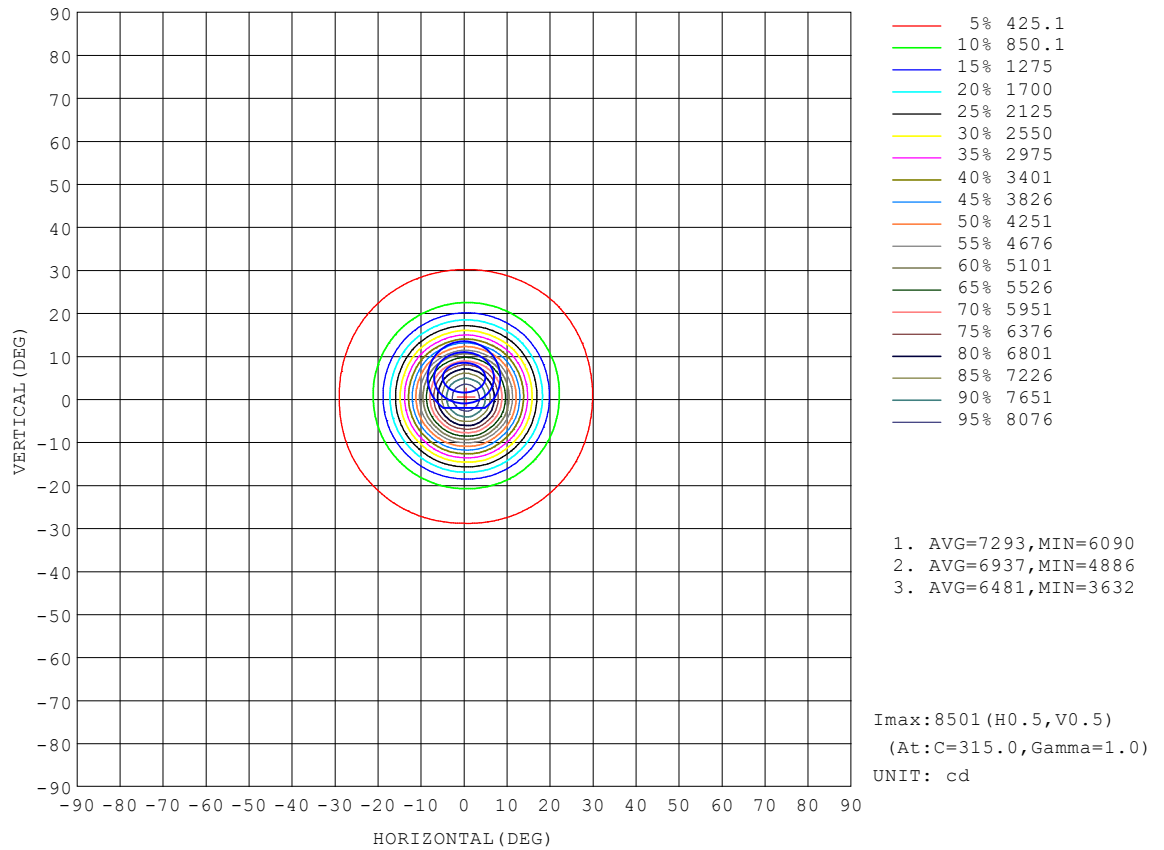
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	69	79	73	69	65
0.80	89	82	77	88	81	77	87	81	77	72
1.00	94	87	83	93	87	83	92	87	82	78
1.25	99	93	88	98	92	88	96	91	87	82
1.50	102	96	92	101	95	92	98	94	91	85
2.00	106	101	97	104	99	96	101	97	94	89
2.50	108	103	100	106	102	99	103	99	97	90
3.00	110	106	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	109	111	109	107	107	106	104	96
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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

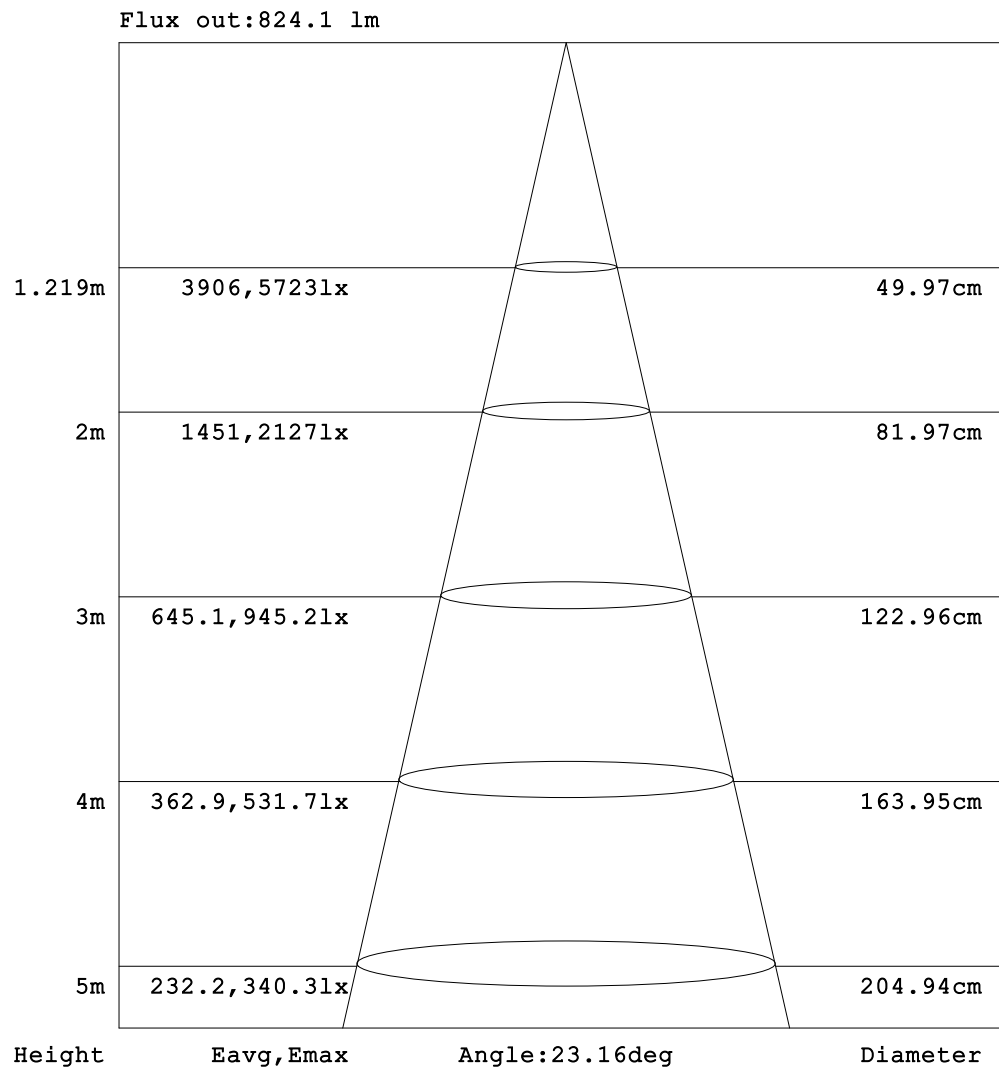


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:27 November 2025

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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:



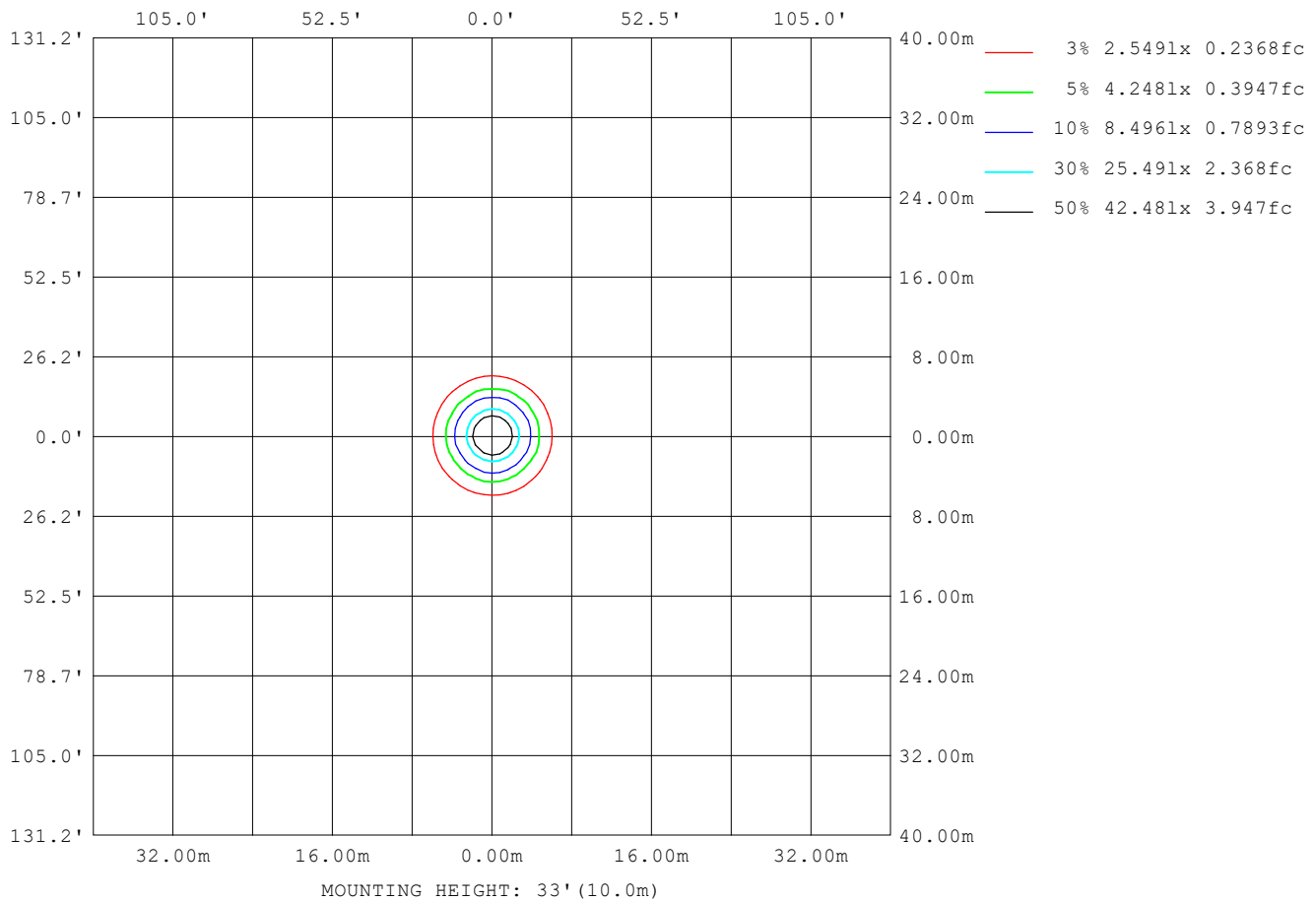
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_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:24.30W PF:0.9201 Lamp Flux:2250.97x1 lm		
NAME: DOUBLE_DOWN_NA_WHT_25DEG_4000K CRI90_325mA	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: DARKON	SUR.:	Shielding Angle:

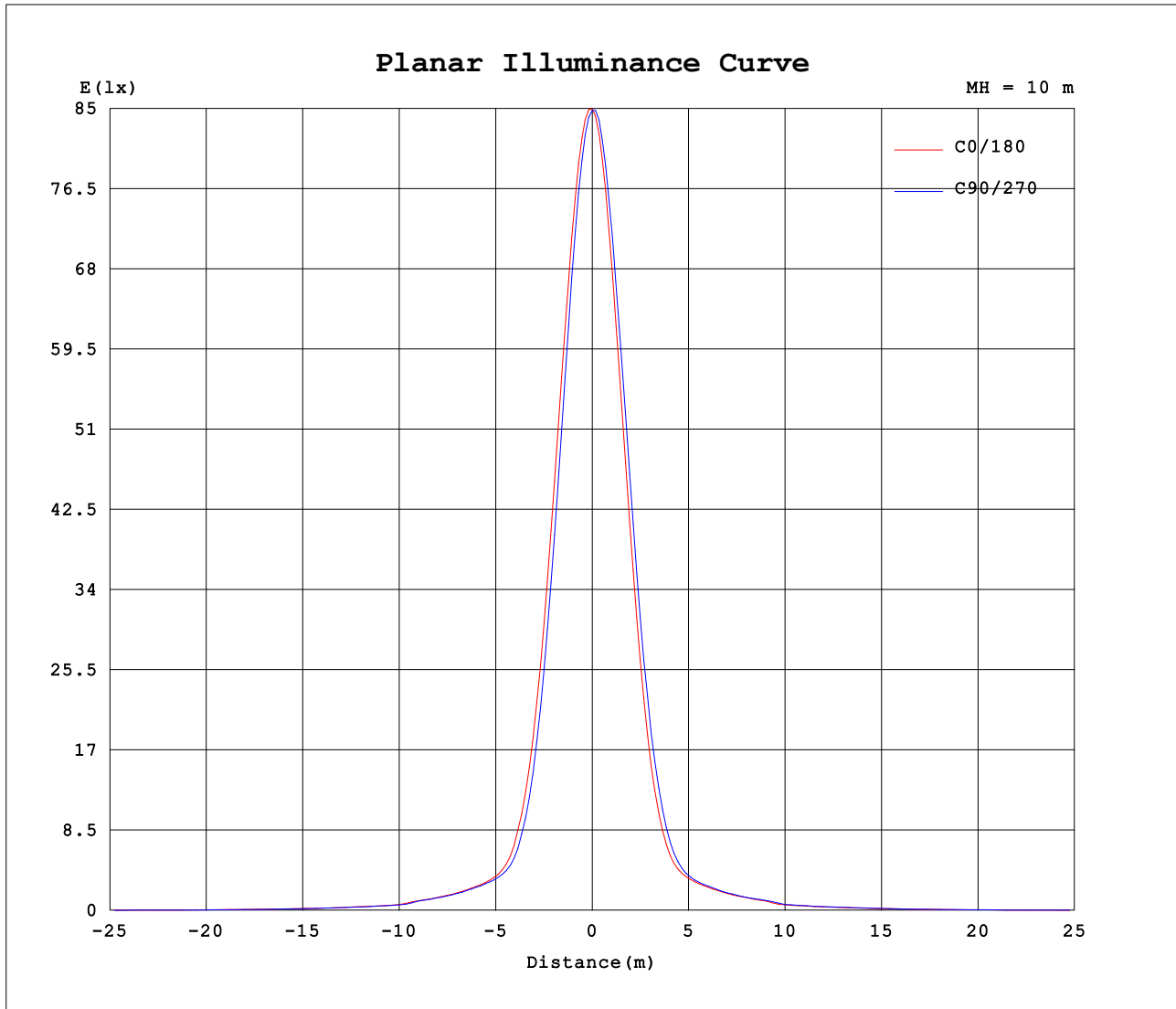
AvgL	cd/m2
L_0~180 (65) av	23467
L_0~180 (75) av	19754
L_0~180 (85) av	14899
L_90~270 (65) av	23409
L_90~270 (75) av	19844
L_90~270 (85) av	14774
L_45 (65) av	23423
L_45 (75) av	19764
L_45 (85) av	14880

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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