

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1512	1537	1392	1339	1388	1371	1398	1452	0- 10	200.3	200.3	16.6,16.6
20	729.8	724.7	715.7	707.7	709.9	714.4	723.5	735.9	10- 20	266.8	467.1	38.7,38.7
30	582.5	586.7	556.7	531.4	528.4	537.3	544.1	563.5	20- 30	296.6	763.8	63.2,63.2
40	229.0	224.7	207.0	193.4	189.7	190.9	199.4	216.8	30- 40	232.0	995.8	82.4,82.4
50	107.4	105.0	107.5	106.5	107.6	112.6	115.2	112.6	40- 50	112.7	1109	91.8,91.8
60	41.06	39.97	38.89	38.13	38.29	39.41	41.20	42.26	50- 60	62.27	1171	96.9,96.9
70	12.40	11.99	11.92	12.10	12.47	12.72	12.89	12.84	60- 70	21.91	1193	98.7,98.7
80	7.875	7.573	7.475	7.532	7.790	7.985	8.192	8.228	70- 80	11.15	1204	99.7,99.7
90	0.0327	0.0327	0.0328	0.0365	0.0400	0.0400	0.0401	0.0401	80- 90	4.004	1208	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): 1056.8 lm

%lum = 87.5%

%lamp = 87.5%

Conical surface Flux(120deg): 1170.8 lm

%lum = 96.9%

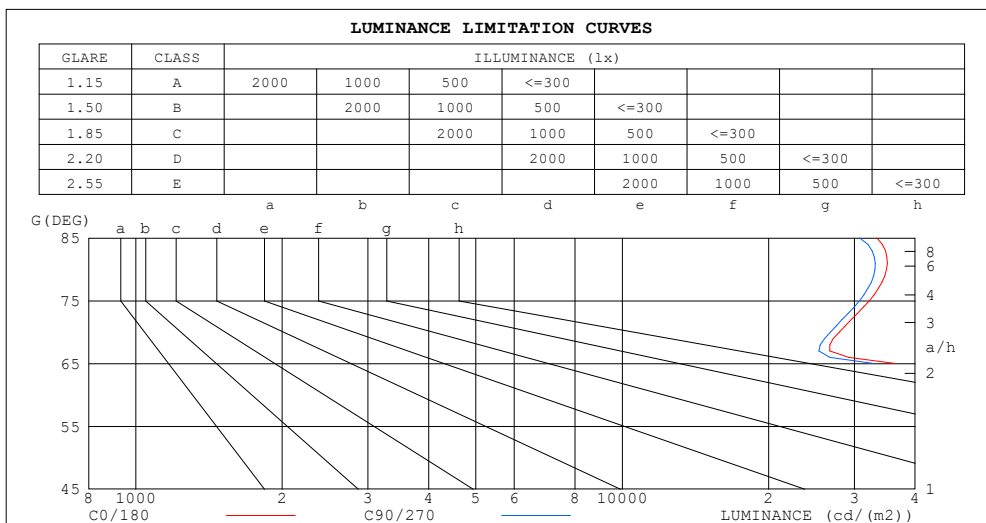
%lamp = 96.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JEFF
 Test Date:24 February 2023

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:7.995m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1207.85x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	33363	30770
80	34942	33094
75	32211	30753
70	27937	26793
65	36324	32827
60	63274	59804
55	92145	88975
50	128780	128594
45	156344	155039

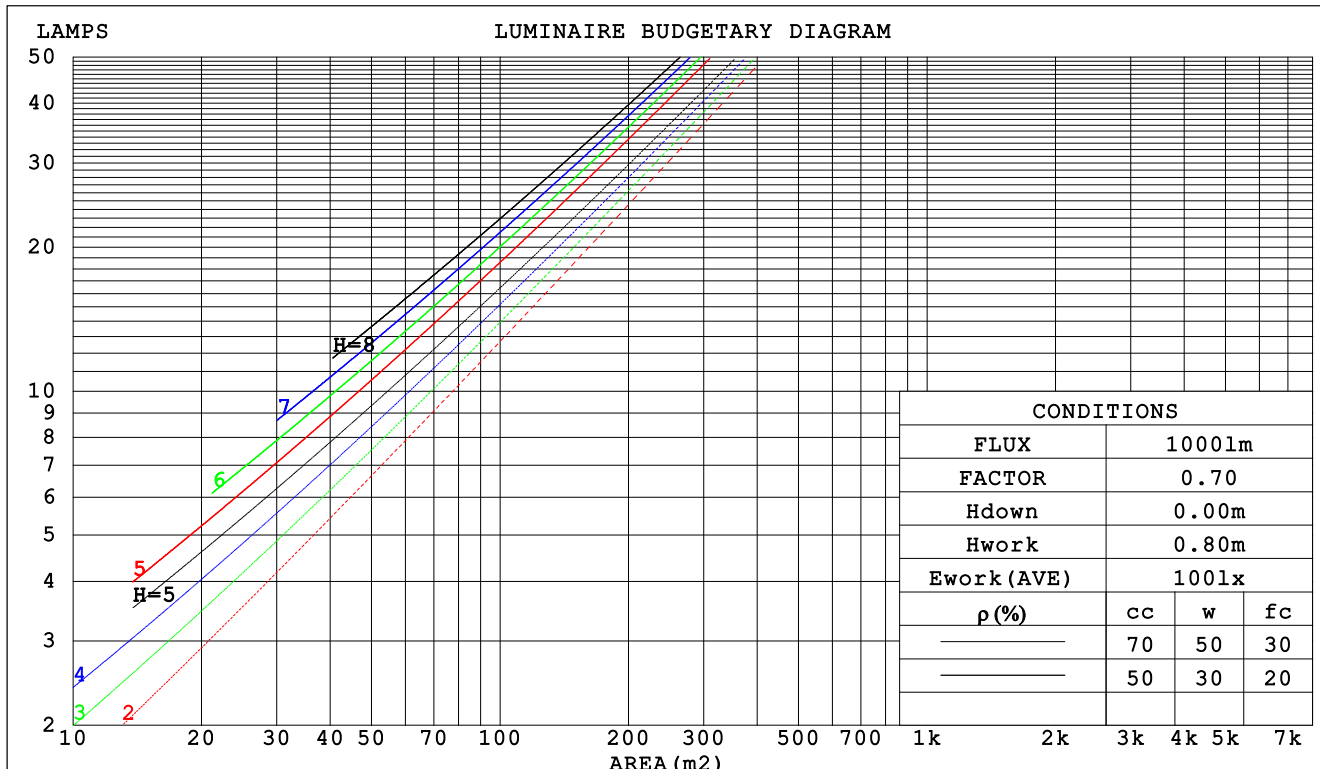
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1207.85x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

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	1.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.02	.97	.94	.00	.96	.92	.97	.93	.90	.94	.91	.88	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.82	.88	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7.0	.72	.66	.61	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.63	.60	.59
8.0	.68	.62	.58	.67	.62	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.55
9.0	.64	.58	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.53	.52
10.0	.61	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.49



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:24 February 2023

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295

Humidity:65.0%

Test Distance:7.995m [K=1.0000]

Remarks:

WEC AND CCEC

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1207.85x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		

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	.194	.110	.035	.187	.107	.034	.174	.100	.032	.163	.094	.030	.152	.088	.028		
2.0	.185	.101	.031	.179	.099	.030	.169	.094	.029	.159	.089	.028	.150	.085	.027		
3.0	.175	.093	.028	.171	.091	.027	.161	.087	.027	.153	.084	.026	.145	.080	.025		
4.0	.166	.086	.025	.162	.085	.025	.154	.082	.024	.146	.079	.024	.139	.076	.023		
5.0	.157	.080	.023	.153	.079	.023	.146	.076	.022	.140	.074	.022	.134	.071	.021		
6.0	.149	.075	.021	.146	.073	.021	.139	.071	.021	.134	.069	.020	.128	.068	.020		
7.0	.141	.070	.020	.138	.069	.020	.133	.067	.019	.128	.065	.019	.123	.064	.019		
8.0	.134	.066	.018	.132	.065	.018	.127	.063	.018	.122	.062	.018	.118	.061	.018		
9.0	.128	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	.113	.057	.017		
10.0	.122	.058	.016	.120	.058	.016	.116	.057	.016	.112	.056	.016	.109	.055	.016		

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	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.080	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.051	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.048	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.098	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 February 2023

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1207.85x1 lm										
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG										
MFR.: DARKON										
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	26.6	27.6	26.8	27.7	27.9	26.4	27.4	26.6	27.5	27.7
3H	26.5	27.5	26.8	27.7	27.9	26.3	27.3	26.6	27.5	27.7
4H	26.6	27.4	26.8	27.7	27.9	26.4	27.2	26.6	27.5	27.7
6H	26.6	27.4	26.9	27.7	27.9	26.4	27.2	26.7	27.5	27.7
8H	26.6	27.4	26.9	27.7	28.0	26.4	27.2	26.7	27.5	27.7
12H	26.6	27.4	27.0	27.7	28.0	26.4	27.2	26.8	27.5	27.7
4H 2H	26.5	27.4	26.8	27.6	27.8	26.3	27.2	26.6	27.4	27.6
3H	26.5	27.3	26.8	27.6	27.8	26.3	27.1	26.6	27.4	27.6
4H	26.6	27.3	27.0	27.6	27.9	26.4	27.1	26.8	27.4	27.7
6H	26.7	27.3	27.1	27.7	28.0	26.5	27.2	26.9	27.5	27.8
8H	26.8	27.4	27.2	27.7	28.1	26.6	27.2	27.0	27.5	27.9
12H	26.8	27.4	27.3	27.7	28.1	26.6	27.2	27.0	27.5	27.9
8H 4H	26.6	27.1	27.0	27.5	27.8	26.4	26.9	26.8	27.3	27.7
6H	26.8	27.2	27.2	27.6	28.1	26.6	27.1	27.0	27.4	27.9
8H	26.9	27.3	27.3	27.7	28.2	26.7	27.1	27.1	27.5	28.0
12H	27.0	27.3	27.5	27.8	28.2	26.8	27.1	27.2	27.6	28.0
12H 4H	26.5	27.0	26.9	27.4	27.8	26.3	26.9	26.8	27.2	27.6
6H	26.8	27.2	27.2	27.6	28.0	26.6	27.0	27.0	27.4	27.9
8H	26.9	27.3	27.4	27.7	28.2	26.7	27.1	27.2	27.5	28.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 2.1					+ 1.5 / - 1.9				
1.5H	+ 2.5 / - 1.4					+ 2.1 / - 1.3				
2.0H	+ 2.2 / - 2.2					+ 2.2 / - 2.2				

CIE Pub.117 Corrected 1208 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.7)

C Range: 0 - 360DEG
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Operators:JEFF
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.995m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1207.85x1 lm		
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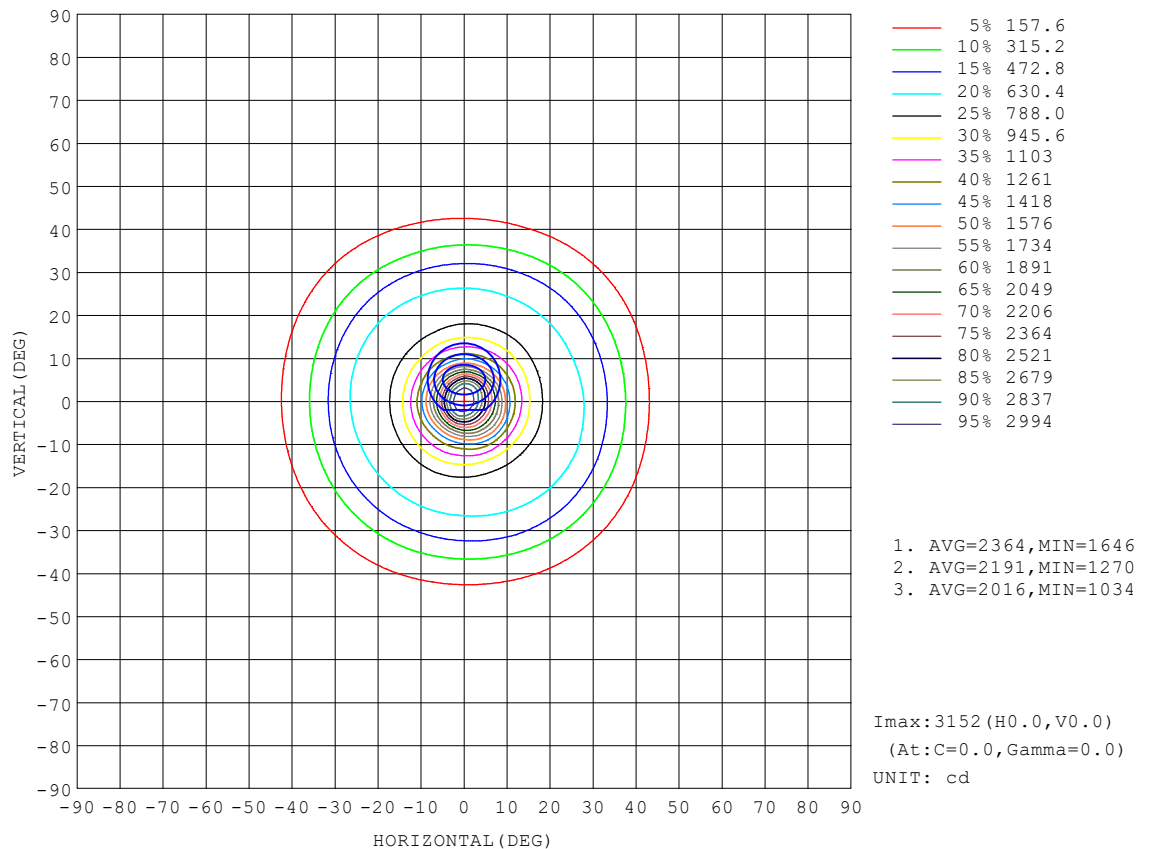
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	94	88	83	94	87	83	92	87	83	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	105	100	97	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	99	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	107	106	104	96
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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MFR.: DARKON		

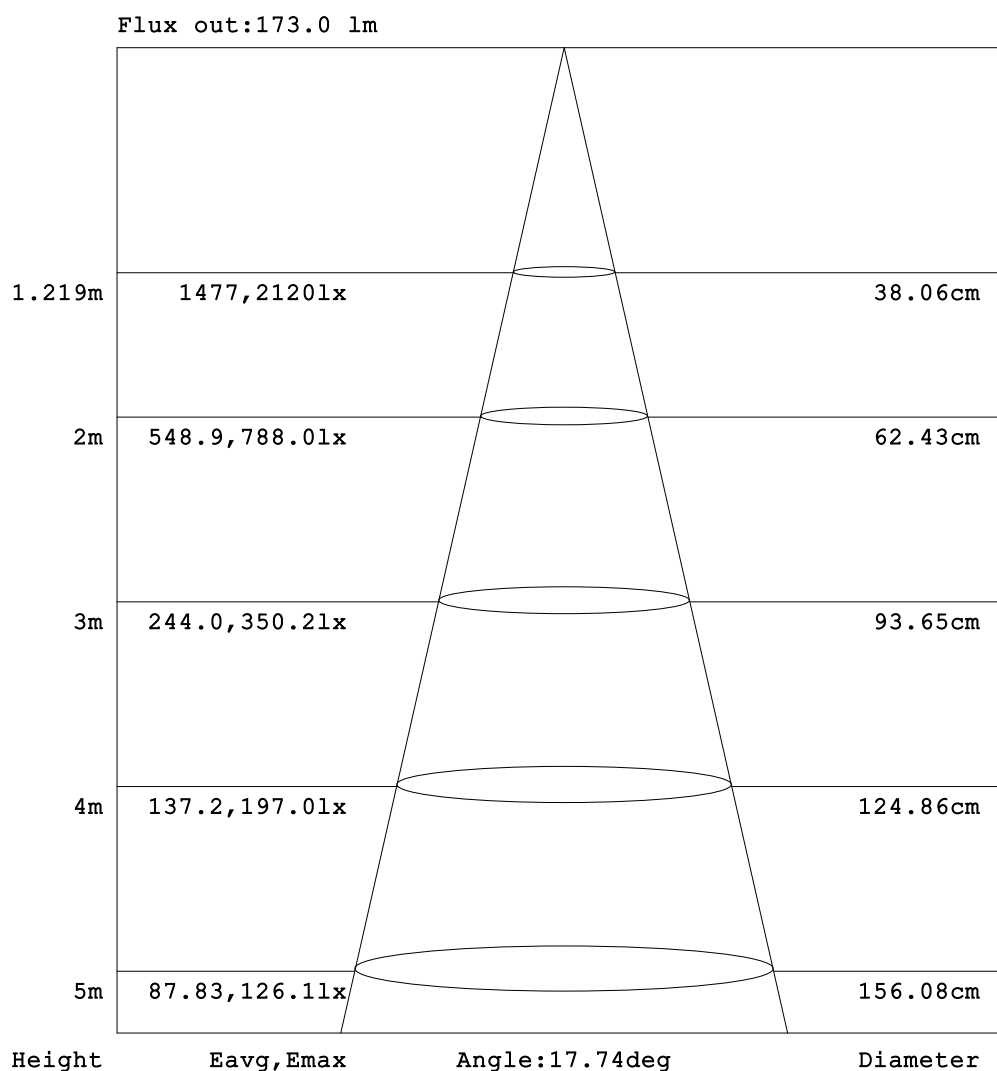


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AAI Figure

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MFR.: DARKON		



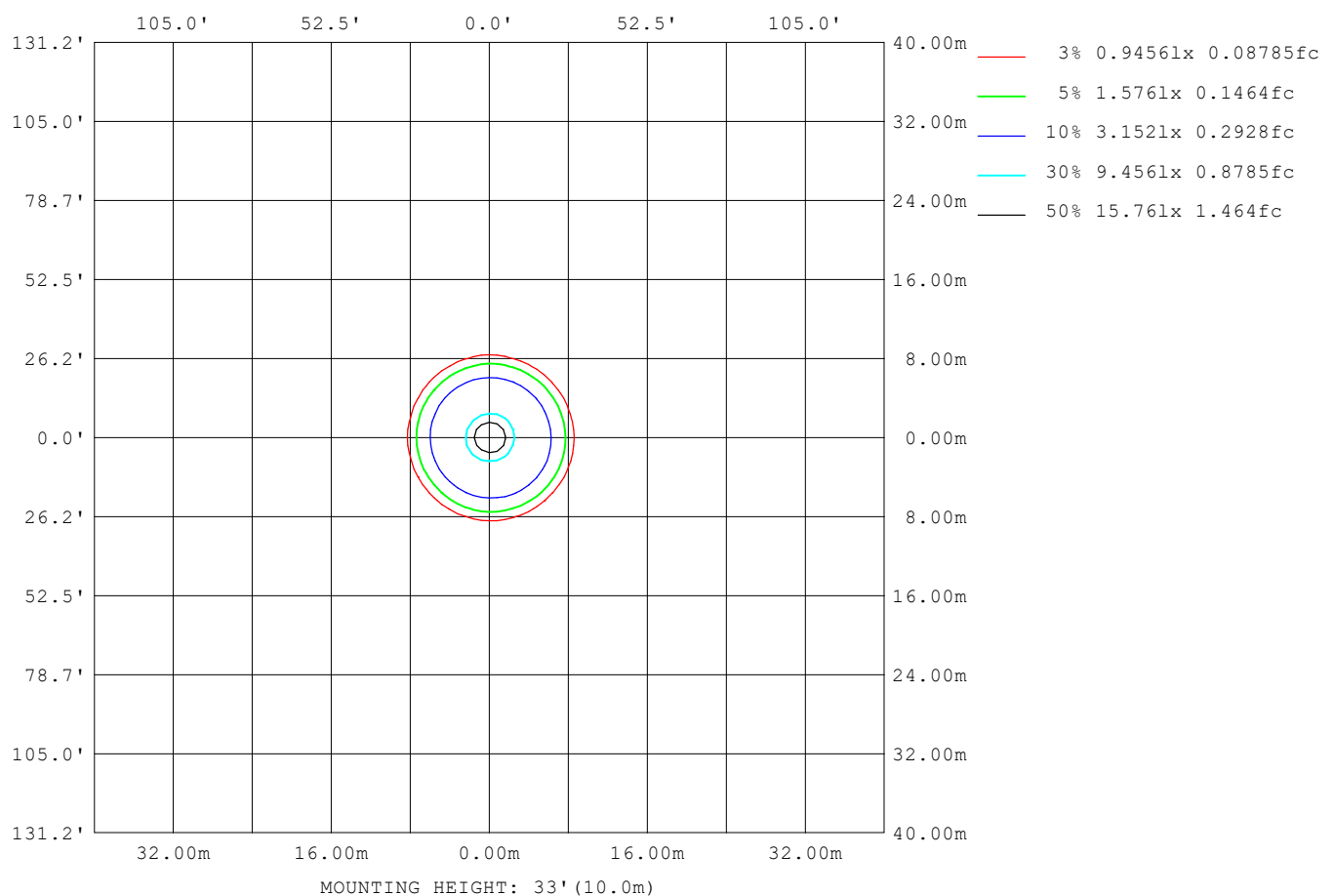
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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γ Interval: 1.0DEG
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ISOLUX DIAGRAM

Test:U:239.9V I:0.0641A P:14.29W PF:0.9293 Lamp Flux:1207.85x1 lm		
NAME: DEEP DOWN_WHT_SLE G7 09mm_350mA_4000K CRI90_24 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
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Humidity:65.0%
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Remarks:

LED Avg.L Report

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MFR.: DARKON		

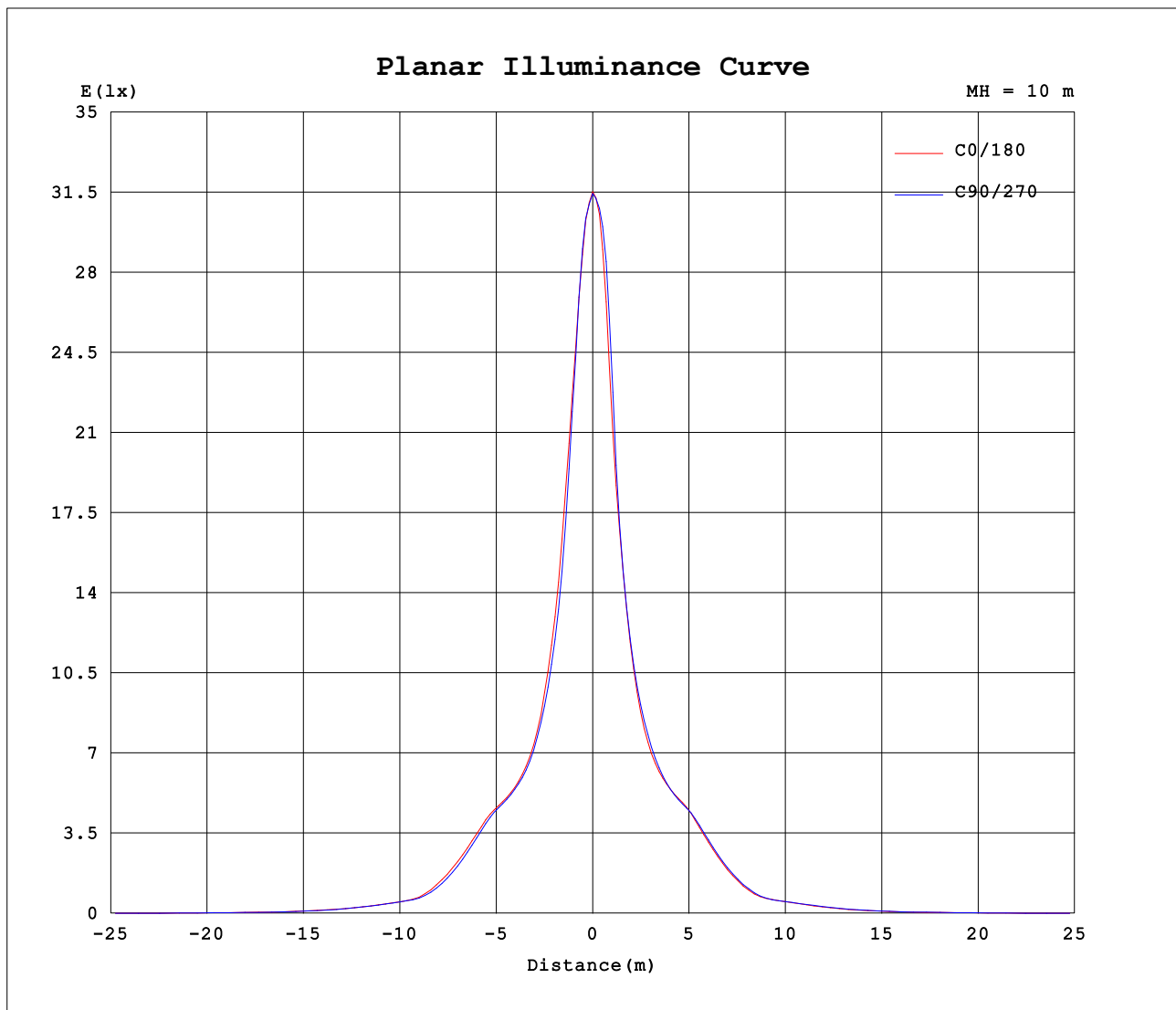
AvgL	cd/m2
L_0~180 (65) av	35251
L_0~180 (75) av	32198
L_0~180 (85) av	32607
L_90~270 (65) av	35870
L_90~270 (75) av	32117
L_90~270 (85) av	32753
L_45 (65) av	35544
L_45 (75) av	32123
L_45 (85) av	32645

Standard: GB/T 29293-2012

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Remarks:

Planar Illuminance Curve



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