

DURBAN-830



Light Output Ratio:	100.0%	
Luminaire Power:	6.128 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-09-18

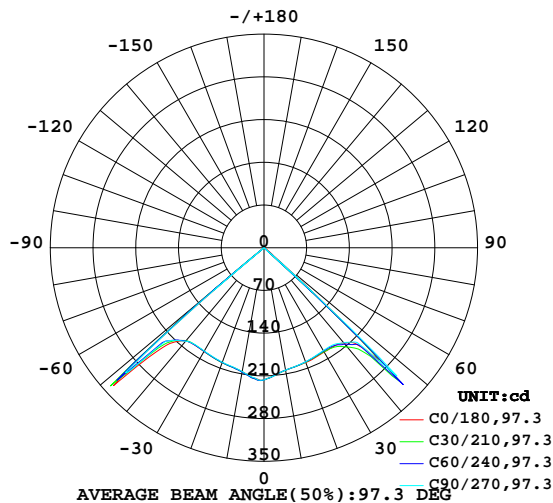
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

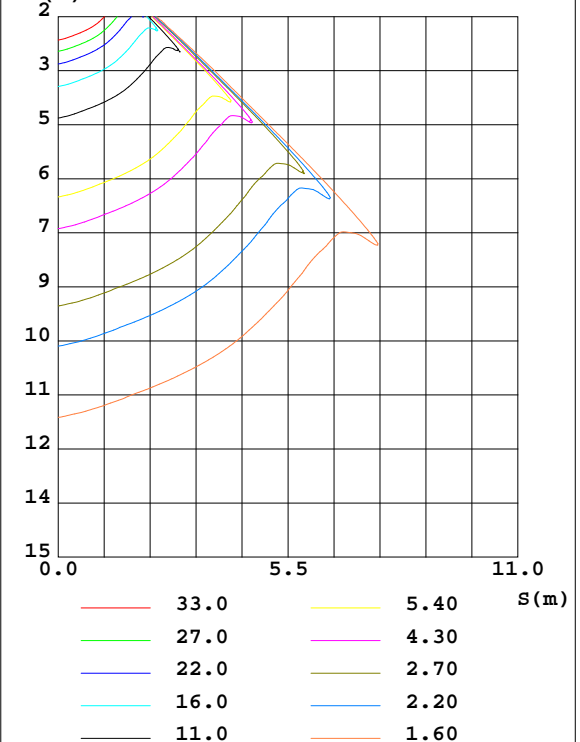
Test:U:221.0V I:0.0530A P:6.128W PF:0.5226 Freq:49.99Hz Lamp Flux:450.517x1 lm		
NAME: DURBAN-830	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: L128mm*W90*H700mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.52 lm/W			
MODEL	3000K	I _{max} (cd)	340.5	S/MH(C0/180)	1.39
NOMINAL POWER(W)	6	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	450.52	η UP,DN(C0-180)	0.0,48.7
NOMINAL FLUX(lm)	450.517	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.70

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	203.8	203.8	203.7	204.2	206.2	206.9	205.9	204.1	0- 10	19.96	19.96	4.43,4.43
20	200.2	199.2	199.0	199.0	200.2	200.3	199.5	198.9	10- 20	57.08	77.04	17.1,17.1
30	197.3	196.0	194.6	195.1	196.4	196.1	195.5	196.6	20- 30	91.39	168.4	37.4,37.4
40	204.2	207.6	203.3	202.1	199.8	199.0	200.0	202.1	30- 40	123.9	292.4	64.9,64.9
50	21.42	3.889	3.248	3.935	78.08	91.28	76.30	32.30	40- 50	152.9	445.3	98.8,98.8
60	3.046	1.437	0.7705	0.5615	0.9698	1.253	0.7095	0.4045	50- 60	4.084	449.4	99.7,99.7
70	0.8076	0.6576	0.3568	0.3081	0.4958	0.6015	0.0895	0.5118	60- 70	0.7219	450.1	99.9,99.9
80	0.2715	0.2467	0.1489	0.1420	0.2183	0.1313	0.0153	0.1751	70- 80	0.3140	450.4	100,100
90	0.0765	0.0568	0.0525	0.0590	0.0765	0.0481	0.0153	0.0525	80- 90	0.1084	450.5	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): 370.65 lm

%lum = 82.3%

%lamp = 82.3%

Conical surface Flux(120deg): 449.37 lm

%lum = 99.7%

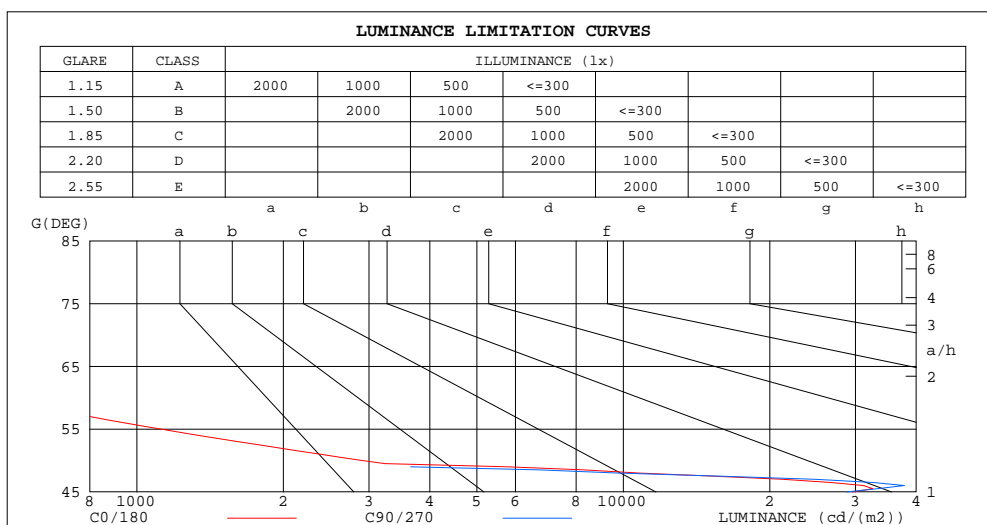
%lamp = 99.7%

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Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.0V I:0.0530A P:6.128W PF:0.5226 Freq:49.99Hz Lamp Flux:450.517x1 lm		
NAME: DURBAN-830	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: L128mm*W90*H700mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	153	92
80	136	74
75	163	87
70	205	91
65	306	108
60	529	134
55	1118	206
50	2893	438
45	29562	28808

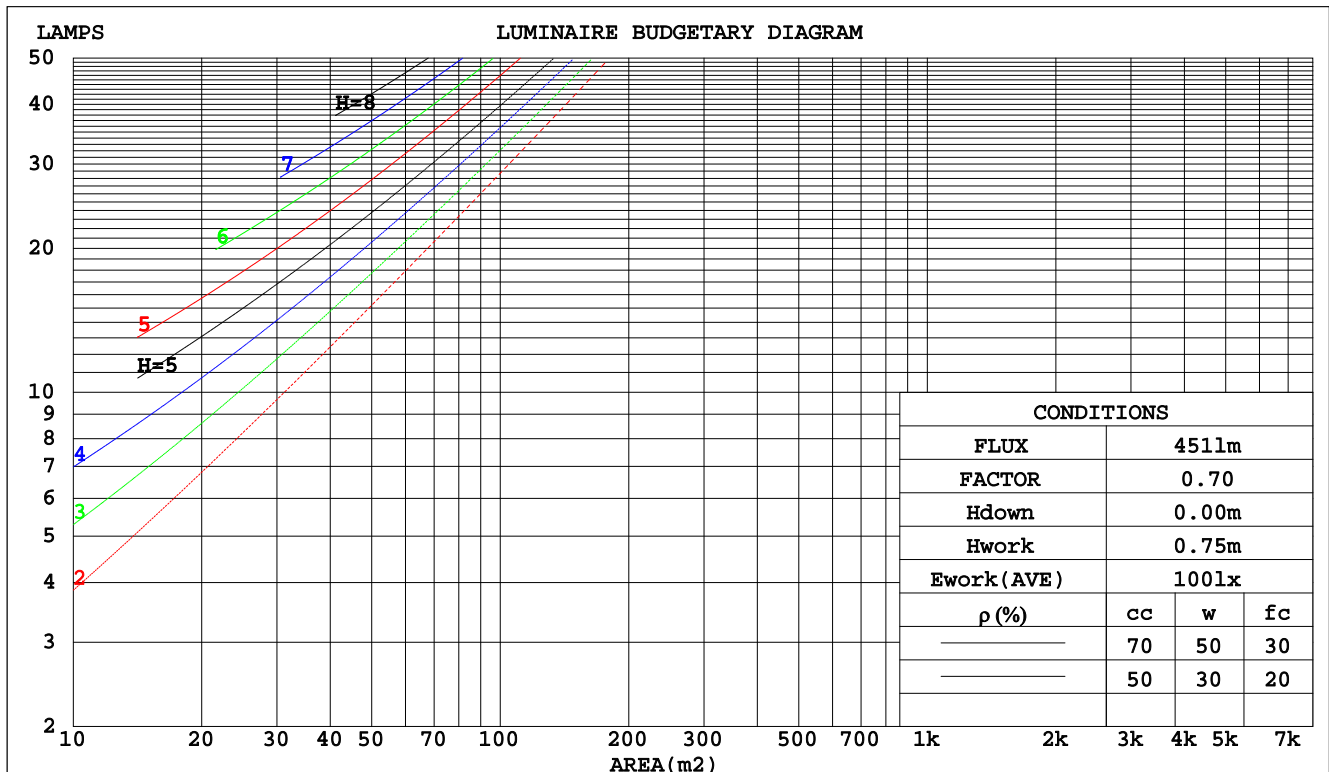
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.86	.83	.82
3.0	.90	.84	.79	.89	.83	.78	.86	.81	.77	.83	.79	.76	.81	.78	.75	.73
4.0	.82	.75	.70	.81	.74	.69	.78	.73	.68	.76	.71	.68	.74	.70	.67	.65
5.0	.74	.67	.62	.73	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.60	.58
6.0	.68	.60	.55	.67	.60	.55	.65	.59	.54	.64	.58	.54	.62	.57	.54	.52
7.0	.62	.55	.49	.61	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47
8.0	.57	.50	.44	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.42
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.40	.38
10.0	.48	.41	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34



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WEC AND CCEC

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SPEC.:3000K	DIM.: L128mm*W90*H700mm	
MFR.: NEKO LIGHTING AG		

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	.212	.121	.038	.206	.117	.037	.193	.111	.035	.181	.104	.034	.170	.099	.032		
2.0	.209	.114	.035	.203	.112	.034	.192	.107	.033	.182	.102	.032	.172	.098	.031		
3.0	.202	.107	.032	.196	.105	.032	.187	.101	.031	.178	.098	.030	.170	.094	.029		
4.0	.193	.101	.030	.189	.099	.029	.181	.096	.029	.173	.093	.028	.166	.090	.027		
5.0	.185	.094	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026	.160	.086	.026		
6.0	.177	.089	.025	.173	.088	.025	.167	.085	.025	.160	.083	.025	.155	.081	.024		
7.0	.169	.083	.024	.166	.082	.024	.160	.081	.023	.154	.079	.023	.149	.077	.023		
8.0	.161	.079	.022	.158	.078	.022	.153	.076	.022	.148	.075	.022	.143	.073	.021		
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.020	.142	.071	.020	.137	.070	.020		
10.0	.147	.070	.020	.144	.070	.019	.140	.069	.019	.136	.067	.019	.132	.066	.019		

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	.174	.157	.142	.149	.135	.122	.102	.093	.085	.058	.054	.049	.019	.017	.016		
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.017	.015	.012		
3.0	.151	.114	.084	.130	.098	.073	.089	.068	.051	.051	.040	.030	.017	.013	.010		
4.0	.143	.100	.067	.123	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008		
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.032	.020	.015	.010	.006		
6.0	.130	.080	.044	.112	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005		
7.0	.124	.073	.037	.107	.063	.033	.074	.044	.023	.043	.026	.014	.014	.009	.005		
8.0	.119	.067	.032	.102	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004		
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.022	.010	.013	.007	.003		
10.0	.109	.058	.024	.094	.051	.021	.065	.036	.015	.038	.021	.009	.012	.007	.003		

C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0530A P:6.128W PF:0.5226 Freq:49.99Hz Lamp Flux:450.517x1 lm										
NAME: DURBAN-830					TYPE:Outdoor Light			SERIAL No.:		
SPEC.:3000K					DIM.: L128mm*W90*H700mm					
MFR.: NEKO LIGHTING AG										
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	22.2	23.4	22.4	23.6	23.7	21.9	23.1	22.1	23.3	23.5
3H	22.0	23.1	22.2	23.3	23.5	21.7	22.8	22.0	23.0	23.2
4H	21.9	22.9	22.2	23.1	23.4	21.6	22.6	21.9	22.9	23.1
6H	21.8	22.7	22.1	23.0	23.3	21.5	22.5	21.8	22.7	23.0
8H	21.7	22.7	22.0	22.9	23.2	21.5	22.4	21.8	22.7	22.9
12H	21.7	22.6	22.0	22.8	23.1	21.4	22.3	21.7	22.6	22.9
4H 2H	21.9	22.9	22.2	23.1	23.4	21.6	22.6	21.9	22.9	23.1
3H	21.7	22.6	22.0	22.8	23.1	21.4	22.3	21.7	22.6	22.9
4H	21.6	22.4	21.9	22.7	23.0	21.3	22.1	21.7	22.4	22.7
6H	21.5	22.2	21.9	22.5	22.9	21.2	21.9	21.6	22.3	22.6
8H	21.4	22.1	21.8	22.5	22.8	21.2	21.8	21.6	22.2	22.6
12H	21.4	22.0	21.8	22.4	22.8	21.1	21.7	21.6	22.1	22.5
8H 4H	21.4	22.1	21.8	22.4	22.8	21.2	21.8	21.6	22.2	22.6
6H	21.4	21.9	21.8	22.3	22.7	21.1	21.6	21.5	22.0	22.4
8H	21.3	21.8	21.8	22.2	22.6	21.0	21.5	21.5	21.9	22.4
12H	21.3	21.7	21.7	22.1	22.6	21.0	21.4	21.5	21.8	22.3
12H 4H	21.4	22.0	21.8	22.4	22.8	21.1	21.7	21.6	22.1	22.5
6H	21.3	21.8	21.8	22.2	22.6	21.0	21.5	21.5	21.9	22.4
8H	21.3	21.7	21.7	22.1	22.6	21.0	21.4	21.5	21.8	22.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.3 / -19.7					+ 3.3 / -23.4				
1.5H	+ 4.5 / -22.9					+ 5.3 / -25.4				
2.0H	+ 8.4 / -22.9					+ 8.8 / -25.8				

CIE Pub.117, 450.5 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.8$)

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UTILIZATION FACTORS TABLE

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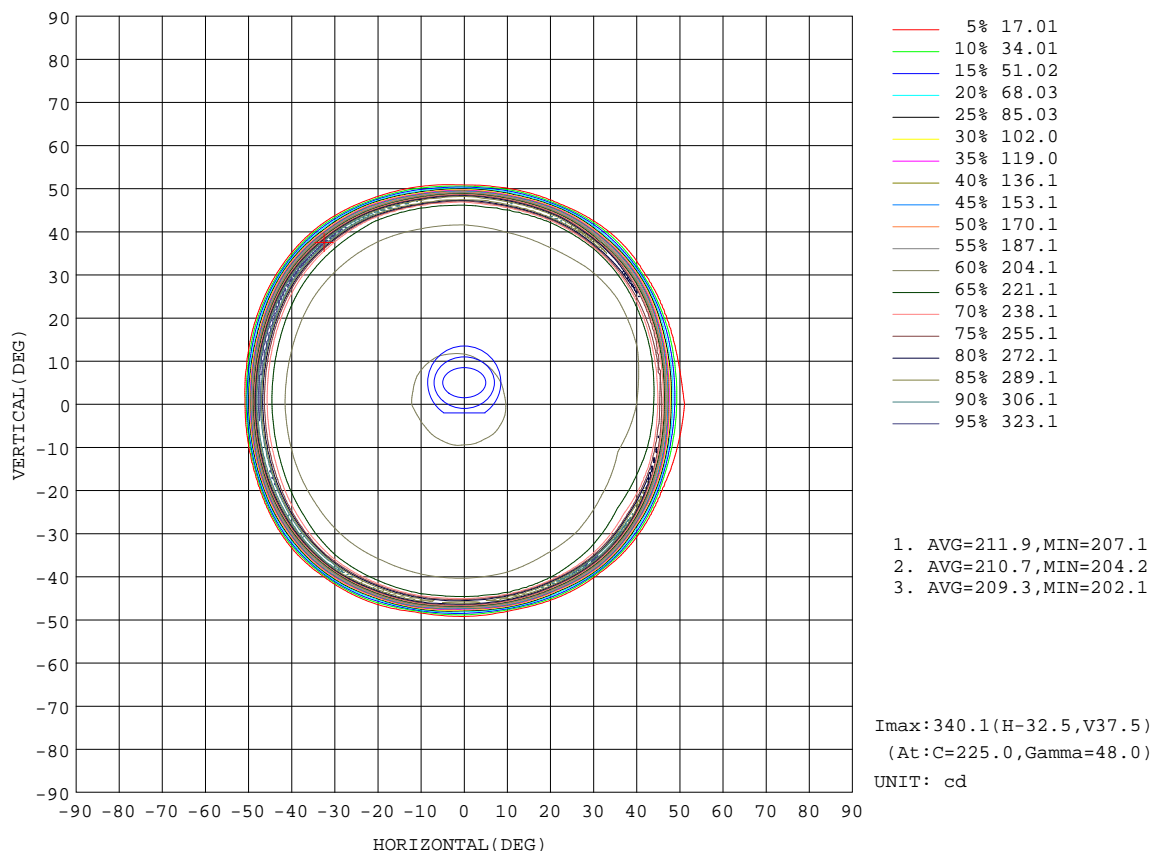
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	68	59	54	49
0.80	80	71	65	79	71	65	78	70	65	59
1.00	88	80	75	87	80	75	85	80	74	69
1.25	95	87	82	94	87	82	91	85	81	76
1.50	99	92	87	97	91	87	95	90	86	80
2.00	104	98	94	102	97	93	99	95	92	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	103	100	97	90
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	104	106	103	101	93
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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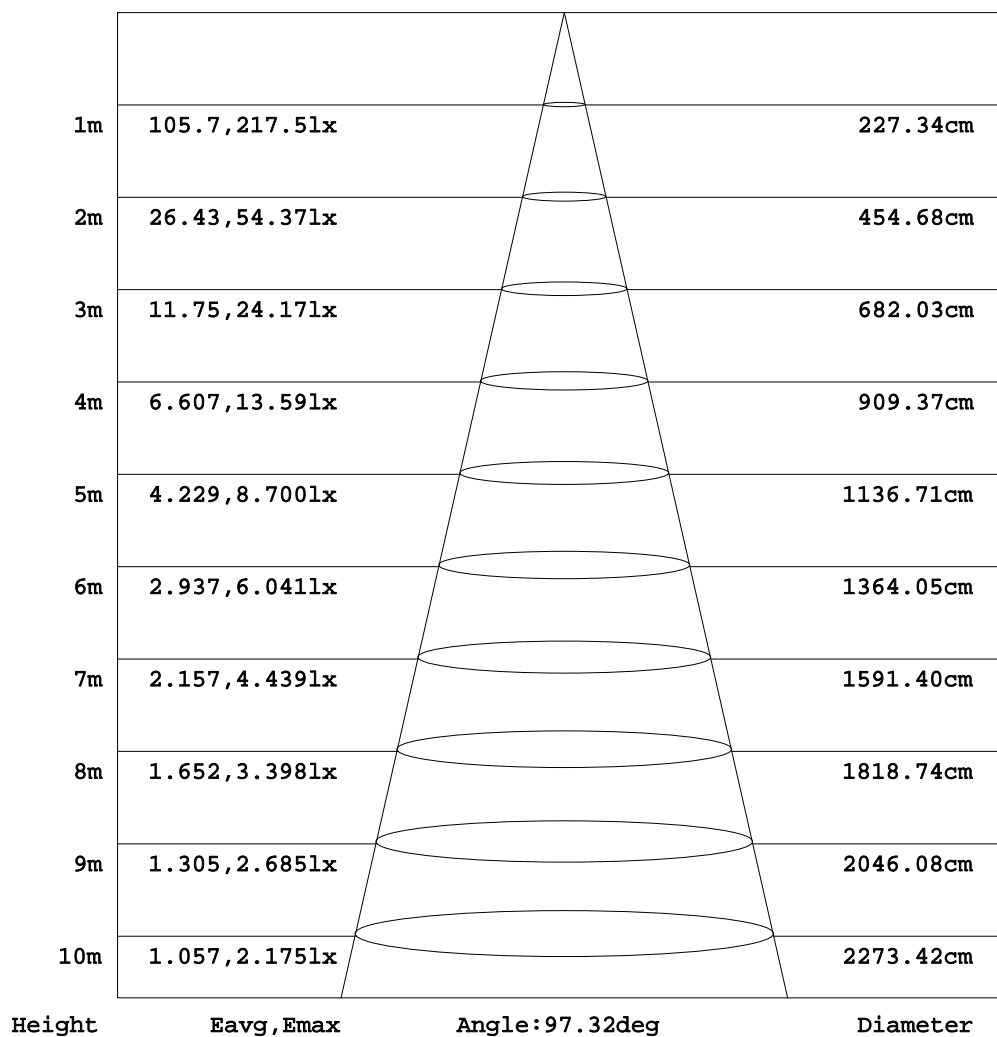
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AAI Figure

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Flux out:439.5 lm



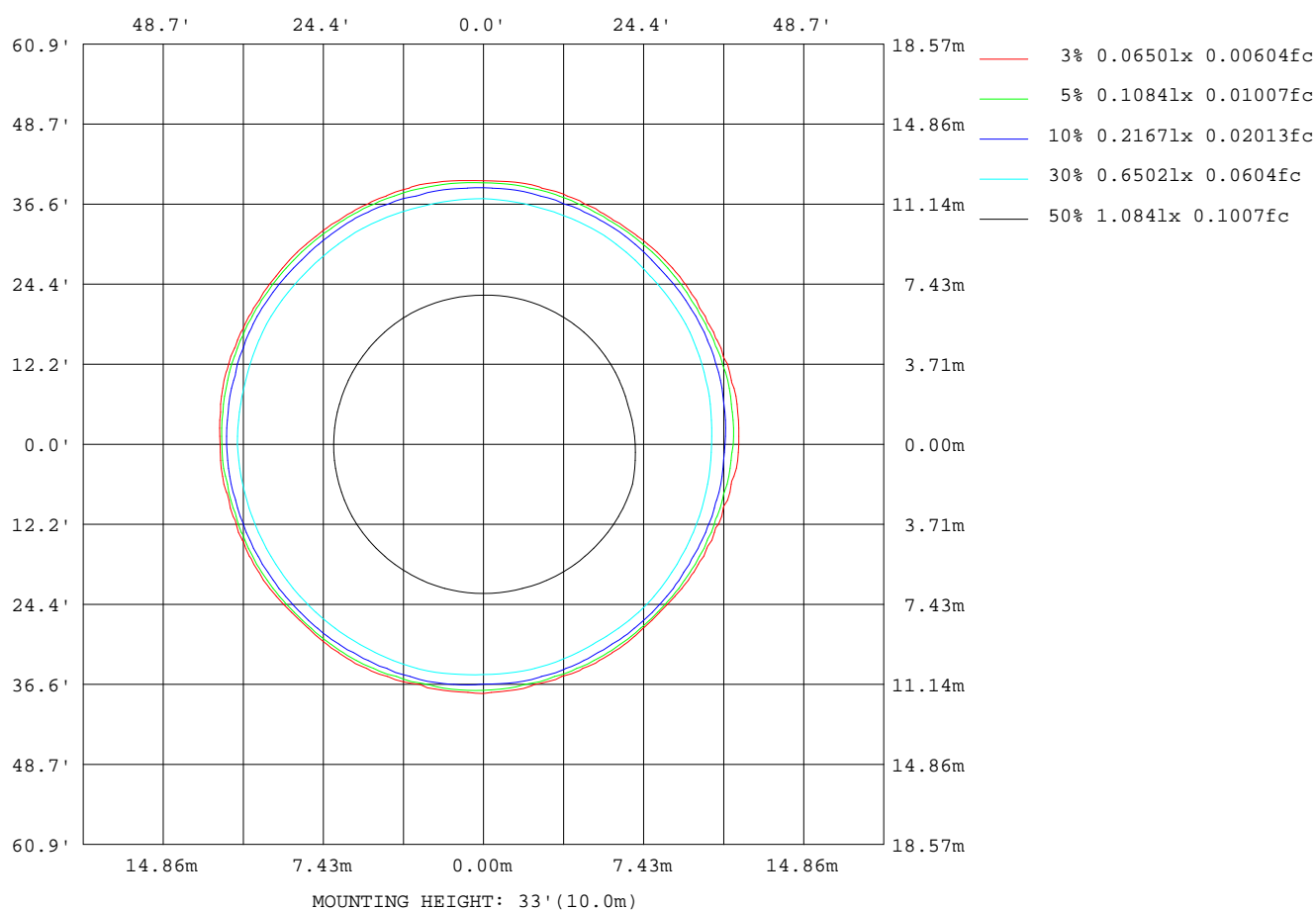
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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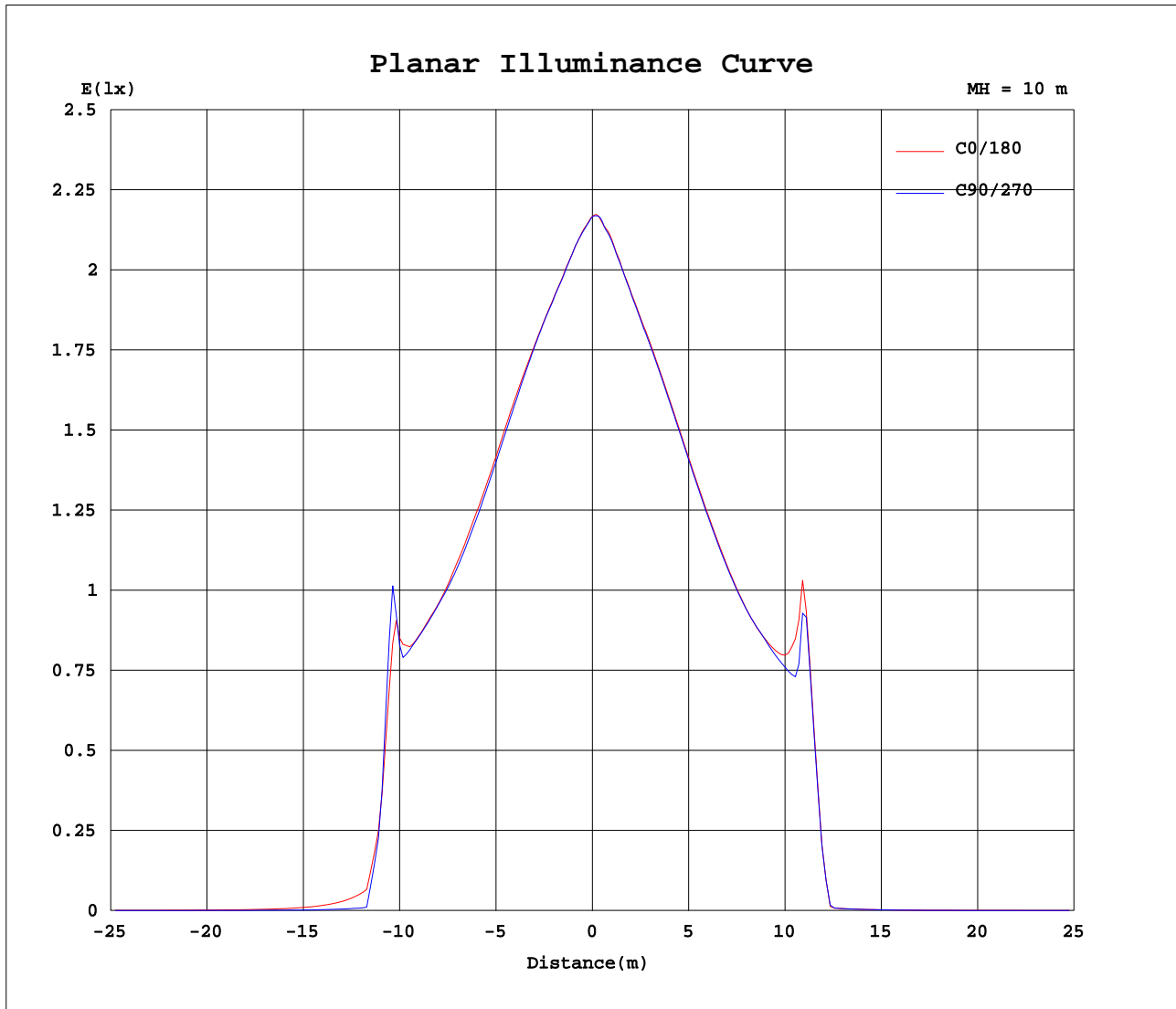
AvgL	cd/m2
L_0~180(65)av	227
L_0~180(75)av	139
L_0~180(85)av	133
L_90~270(65)av	75
L_90~270(75)av	51
L_90~270(85)av	53
L_45(65)av	155
L_45(75)av	111
L_45(85)av	97

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-09-18

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-09-18

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

```

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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```

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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```