

SJDC-DW-20W-930-36D



Light Output Ratio:	100.0%	
Luminaire Power:	20.17 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2022-03-08

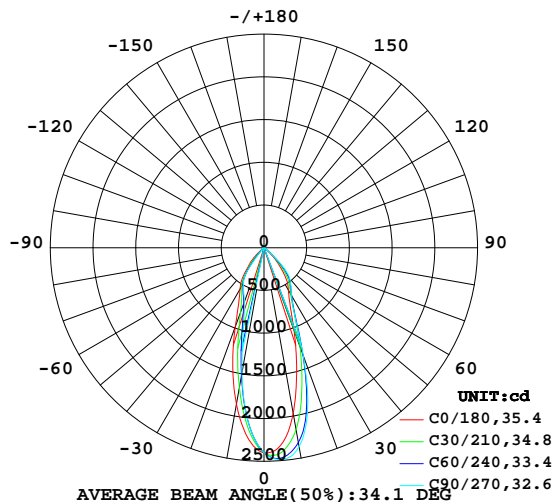
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

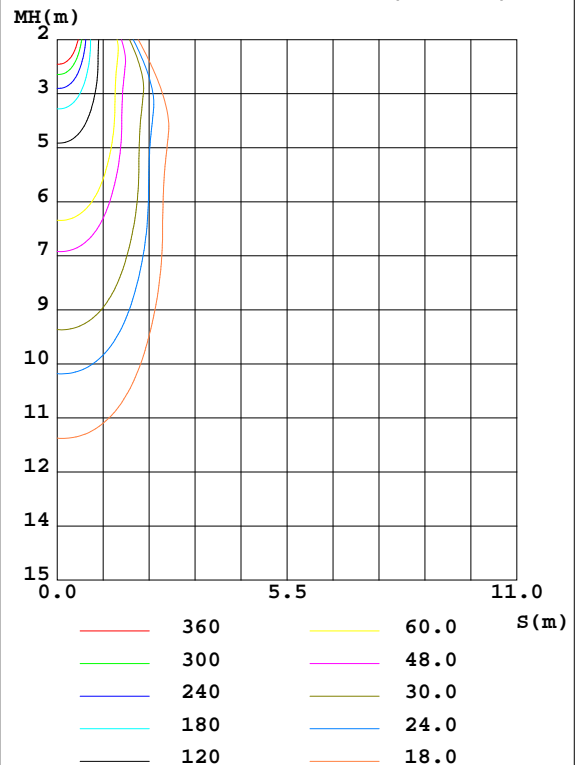
Test:U:221.0V I:0.0949A P:20.17W PF:0.9620 Freq:49.99Hz Lamp Flux:1404.74x1 lm		
NAME: SJDC-DW-20W-930-36D	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: 224x135x60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.65 lm/W			
MODEL	Bridgeiux-3000K	I _{max} (cd)	2493	S/MH(C0/180)	0.57
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.41
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1404.7	η UP,DN(C0-180)	0.0,59.1
NOMINAL FLUX(lm)	1404.74	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.55

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	1970	2257	2363	2127	1858	1573	1485	1704	0- 10	205.4	205.4	14.6,14.6
20	1030	1314	1343	1233	982.0	737.3	675.5	767.5	10- 20	397.0	602.4	42.9,42.9
30	571.9	646.6	648.5	624.1	562.3	503.0	482.7	517.8	20- 30	336.1	938.5	66.8,66.8
40	302.6	426.7	466.2	394.9	291.0	194.5	127.7	211.5	30- 40	278.8	1217	86.7,86.7
50	57.52	97.30	76.71	98.59	56.55	30.10	30.52	33.78	40- 50	128.6	1346	95.8,95.8
60	22.21	25.64	27.54	25.02	22.97	16.96	16.76	18.48	50- 60	28.37	1374	97.8,97.8
70	12.65	15.07	15.72	14.62	14.39	13.18	12.24	12.93	60- 70	17.04	1391	99,99
80	4.789	7.061	10.96	8.970	6.803	4.582	1.081	3.262	70- 80	11.00	1402	99.8,99.8
90	0.1245	0.2346	0.1305	0.1892	0.2076	0.1512	0.1305	0.1682	80- 90	2.381	1405	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): 1302.7 lm

%lum = 92.7%

%lamp = 92.7%

Conical surface Flux(120deg): 1374.3 lm

%lum = 97.8%

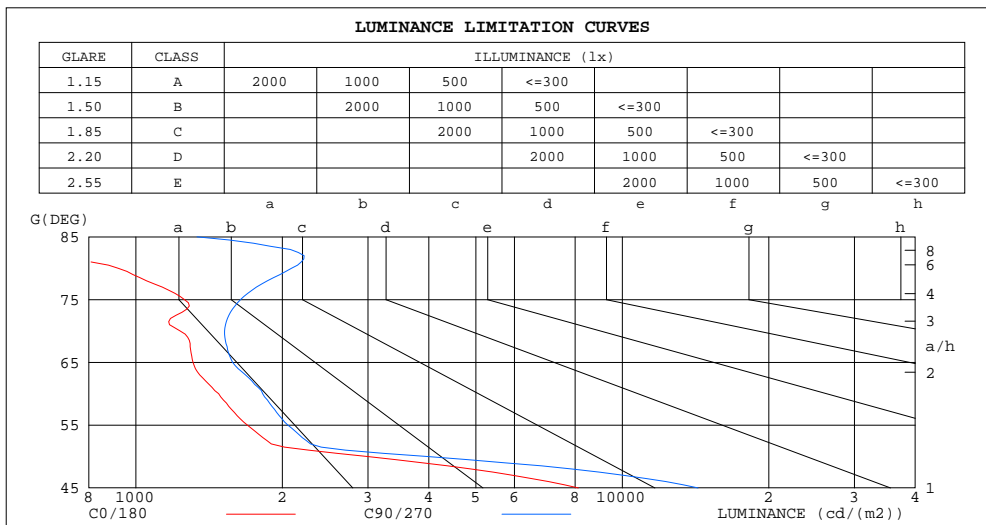
%lamp = 97.8%

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Humidity:58%
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Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.0V I:0.0949A P:20.17W PF:0.9620 Freq:49.99Hz Lamp Flux:1404.74x1 lm		
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SPEC.:3000K	DIM.: 224x135x60mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	162	1336
80	919	2090
75	1258	1641
70	1232	1521
65	1311	1581
60	1480	1823
55	1695	2052
50	2980	3950
45	8122	14308

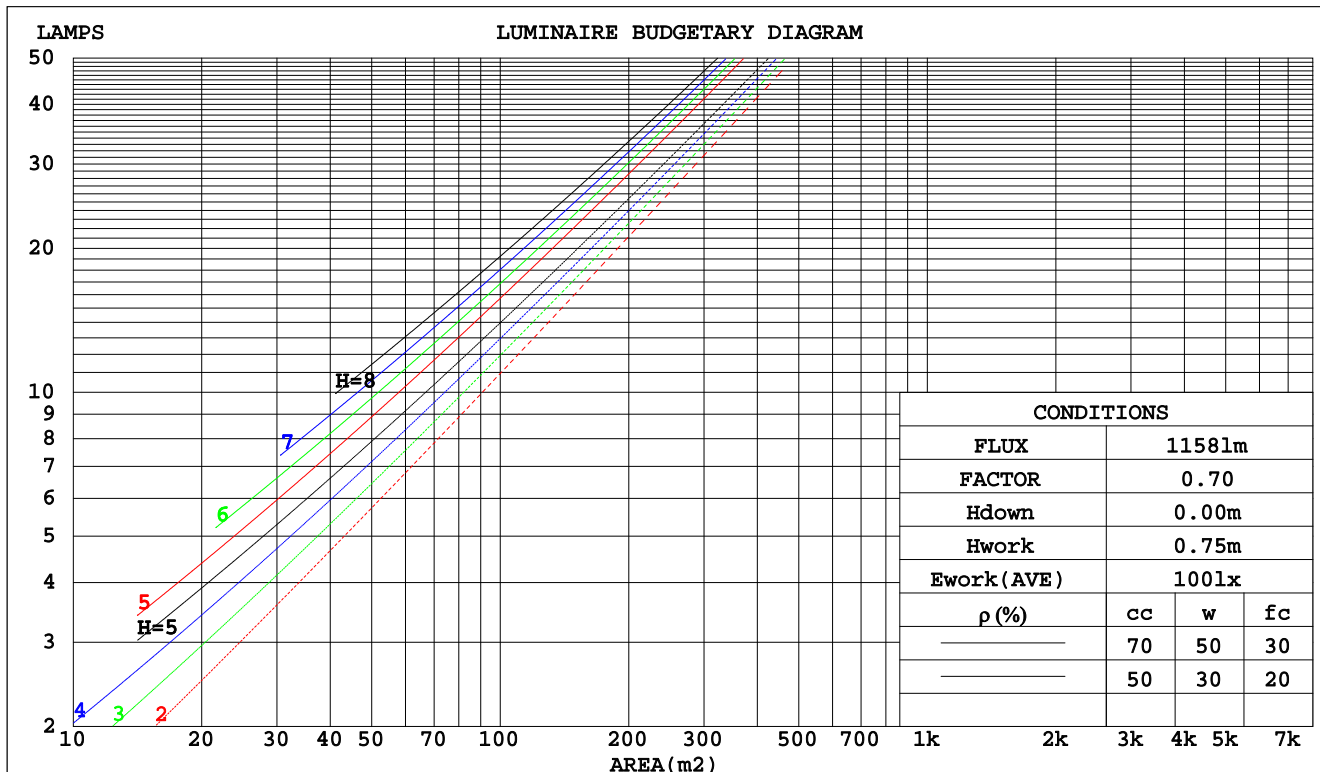
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: 224x135x60mm	
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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	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	1.08	1.06	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	.94	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.78	.73	.82	.77	.73	.81	.76	.72	.79	.75	.72	.77	.74	.71	.69
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.64	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.65	.62	.61
8.0	.70	.64	.60	.69	.63	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51



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WEC AND CCEC

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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	.185	.105	.033	.178	.102	.032	.165	.095	.030	.154	.089	.028	.143	.083	.027		
2.0	.177	.097	.030	.171	.094	.029	.160	.089	.028	.150	.084	.026	.141	.080	.025		
3.0	.167	.089	.027	.163	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.024		
4.0	.159	.082	.024	.155	.081	.024	.147	.078	.023	.139	.075	.023	.133	.072	.022		
5.0	.151	.077	.022	.147	.075	.022	.140	.073	.021	.134	.071	.021	.128	.068	.021		
6.0	.143	.072	.021	.140	.071	.020	.134	.069	.020	.128	.067	.020	.123	.065	.019		
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018		
8.0	.130	.063	.018	.127	.063	.018	.123	.061	.017	.118	.060	.017	.114	.058	.017		
9.0	.124	.060	.017	.122	.059	.017	.117	.058	.016	.113	.057	.016	.110	.056	.016		
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.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	.100	.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	.135	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.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:8.967m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0949A P:20.17W PF:0.9620 Freq:49.99Hz Lamp Flux:1404.74x1 lm										
NAME: SJDC-DW-20W-930-36D					TYPE:Outdoor Light			SERIAL No.:		
SPEC.:3000K					DIM.: 224x135x60mm					
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	14.8	15.7	15.0	15.9	16.1	16.0	17.0	16.3	17.2	17.4
3H	14.7	15.6	15.0	15.8	16.0	16.0	16.9	16.3	17.1	17.3
4H	14.7	15.6	15.0	15.8	16.0	16.0	16.8	16.3	17.1	17.3
6H	14.7	15.5	15.0	15.7	16.0	16.0	16.8	16.3	17.1	17.3
8H	14.7	15.4	15.0	15.7	16.0	16.1	16.8	16.4	17.1	17.4
12H	14.6	15.4	14.9	15.6	15.9	16.1	16.8	16.4	17.1	17.4
4H 2H	14.6	15.4	14.9	15.7	15.9	15.8	16.7	16.1	16.9	17.1
3H	14.6	15.3	14.9	15.6	15.9	15.8	16.6	16.2	16.8	17.1
4H	14.7	15.3	15.0	15.6	15.9	15.9	16.6	16.3	16.9	17.2
6H	14.7	15.3	15.1	15.6	15.9	16.0	16.6	16.4	17.0	17.3
8H	14.7	15.2	15.1	15.6	15.9	16.1	16.7	16.5	17.0	17.4
12H	14.6	15.1	15.0	15.5	15.9	16.1	16.6	16.5	17.0	17.4
8H 4H	14.6	15.2	15.0	15.5	15.9	15.8	16.4	16.2	16.7	17.1
6H	14.7	15.1	15.1	15.5	15.9	16.0	16.5	16.5	16.9	17.3
8H	14.7	15.1	15.1	15.5	15.9	16.1	16.5	16.6	17.0	17.4
12H	14.6	15.0	15.1	15.4	15.9	16.2	16.5	16.7	17.0	17.4
12H 4H	14.6	15.1	15.0	15.5	15.9	15.8	16.3	16.2	16.7	17.1
6H	14.7	15.1	15.1	15.5	15.9	16.0	16.4	16.4	16.8	17.2
8H	14.7	15.0	15.1	15.4	15.9	16.1	16.5	16.6	16.9	17.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 5.0					+ 2.1 / - 4.5				
1.5H	+ 3.3 / - 5.4					+ 3.0 / - 5.2				
2.0H	+ 5.0 / - 2.8					+ 6.1 / - 2.9				

CIE Pub.117, 1405 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.2$)

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 γ Interval: 0.5DEG
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Remarks:

UTILIZATION FACTORS TABLE

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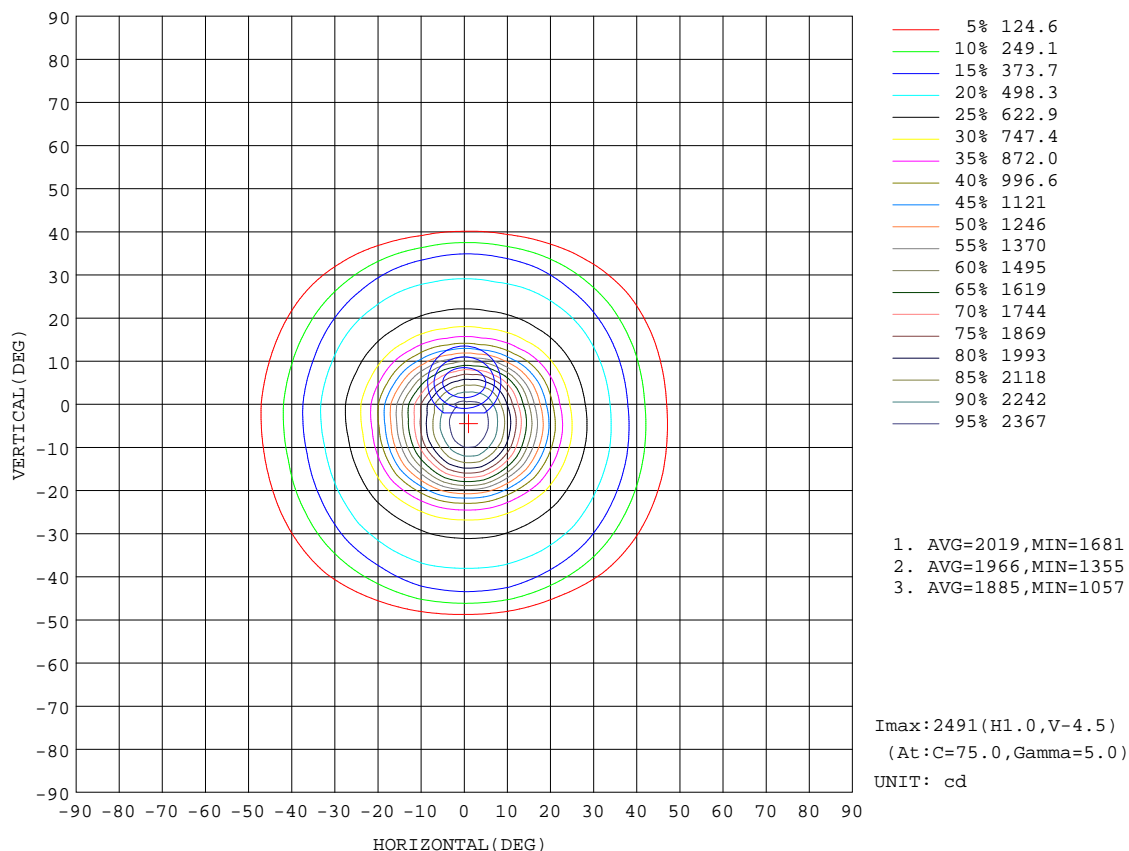
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	76	72	68
0.80	91	85	80	91	84	80	89	84	80	76
1.00	96	90	86	96	90	86	94	90	85	81
1.25	101	95	91	100	95	91	98	93	90	86
1.50	104	99	95	103	98	94	100	96	93	88
2.00	107	103	99	106	101	98	103	99	97	91
2.50	109	105	101	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
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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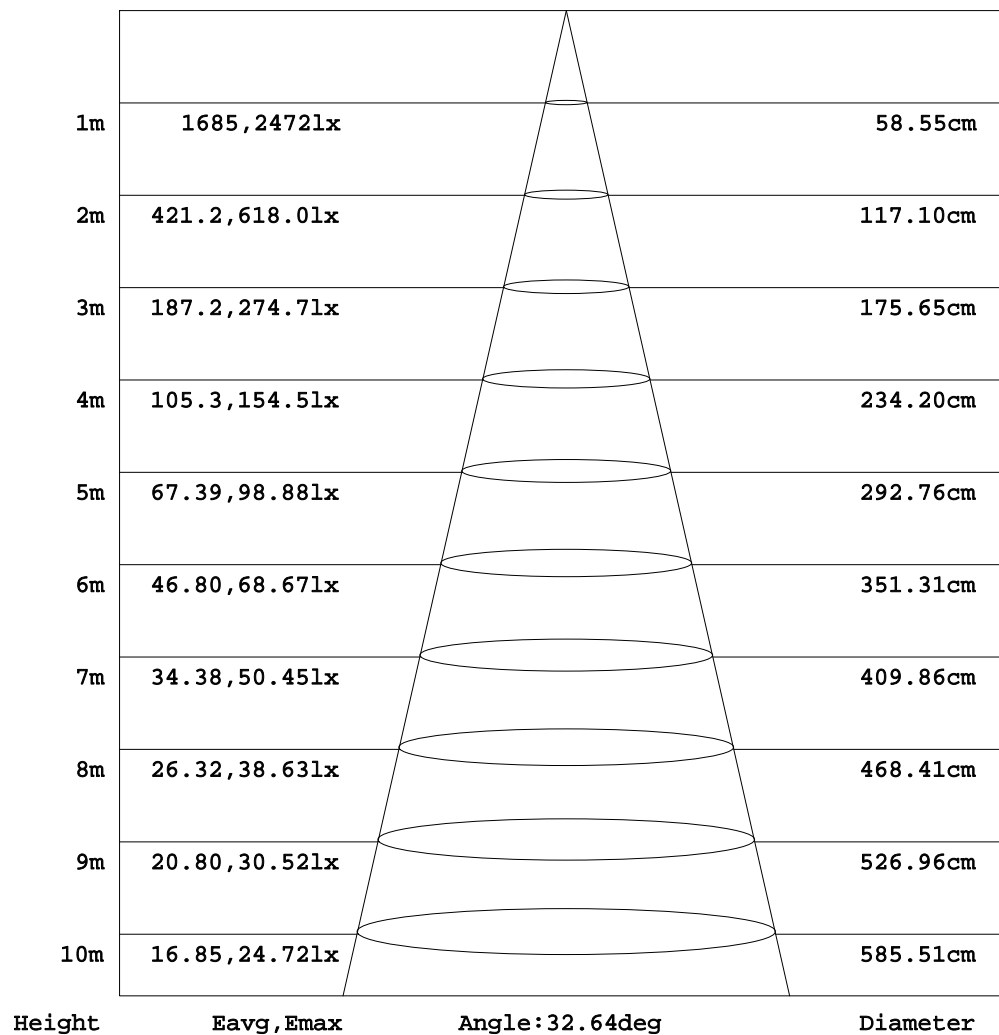
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AAI Figure

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Flux out:464.4 lm



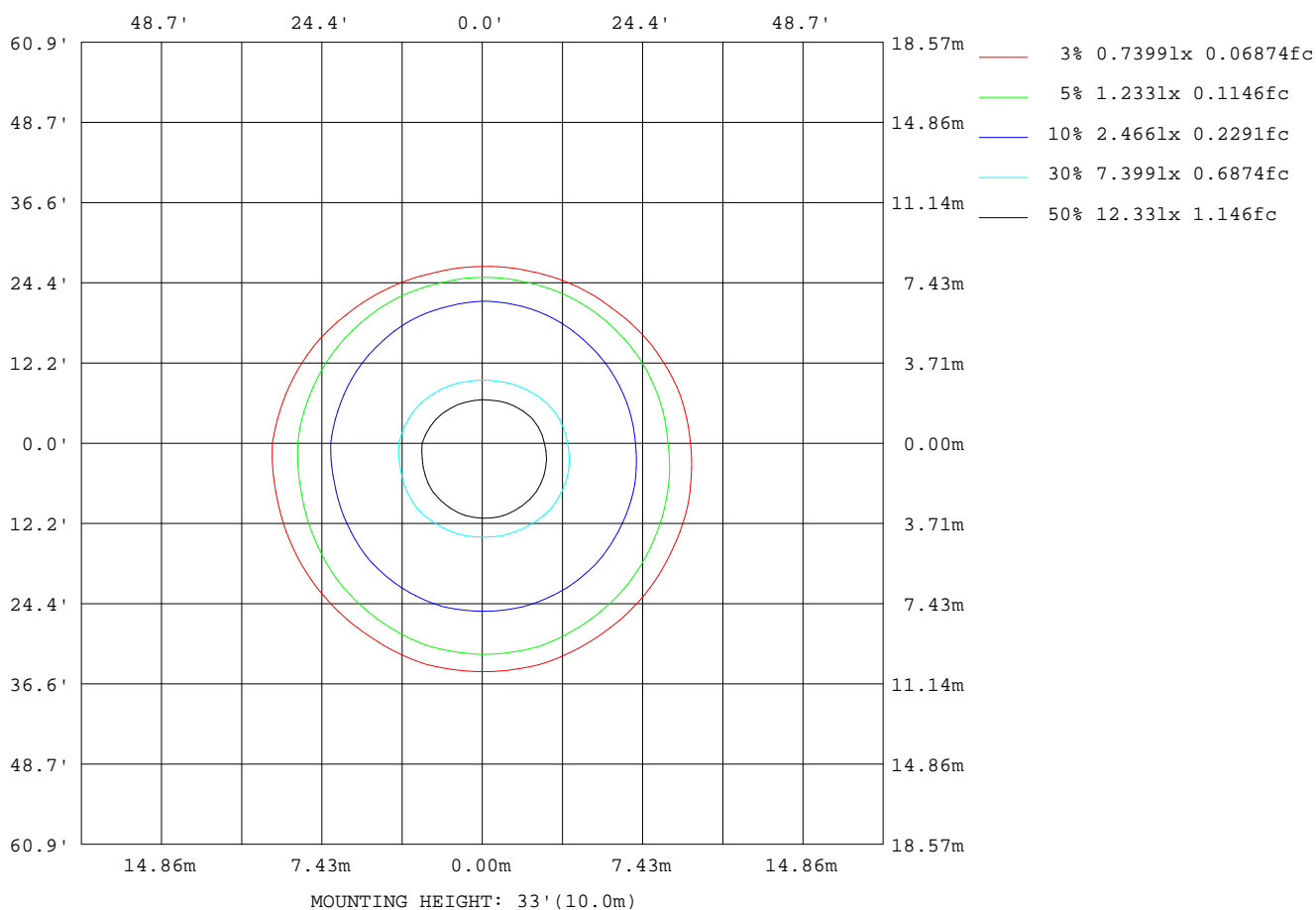
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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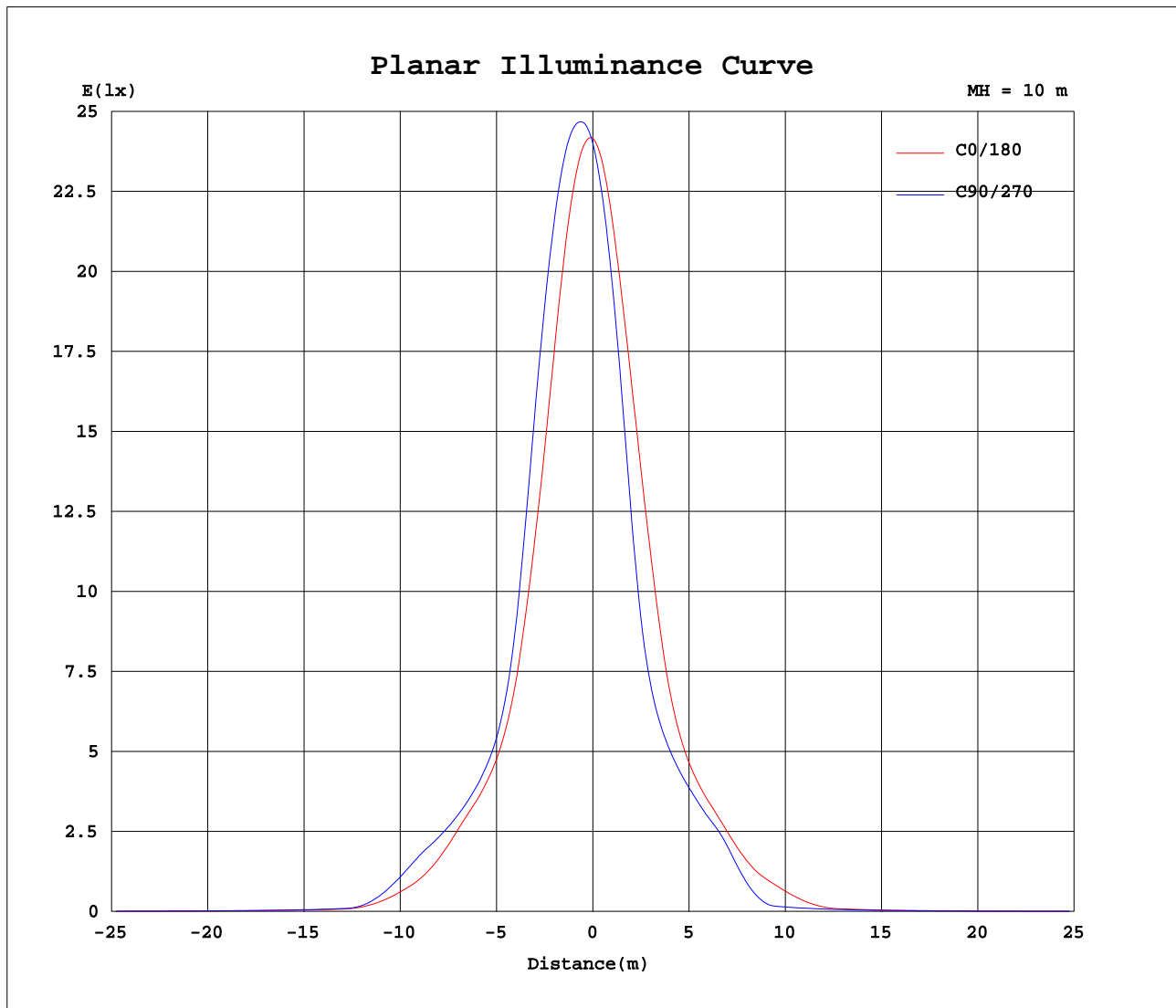
AvgL	cd/m2
L_0~180(65)av	1336
L_0~180(75)av	1301
L_0~180(85)av	618
L_90~270(65)av	1313
L_90~270(75)av	1448
L_90~270(85)av	730
L_45(65)av	1302
L_45(75)av	1405
L_45(85)av	537

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2022-03-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [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: 2022-03-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```