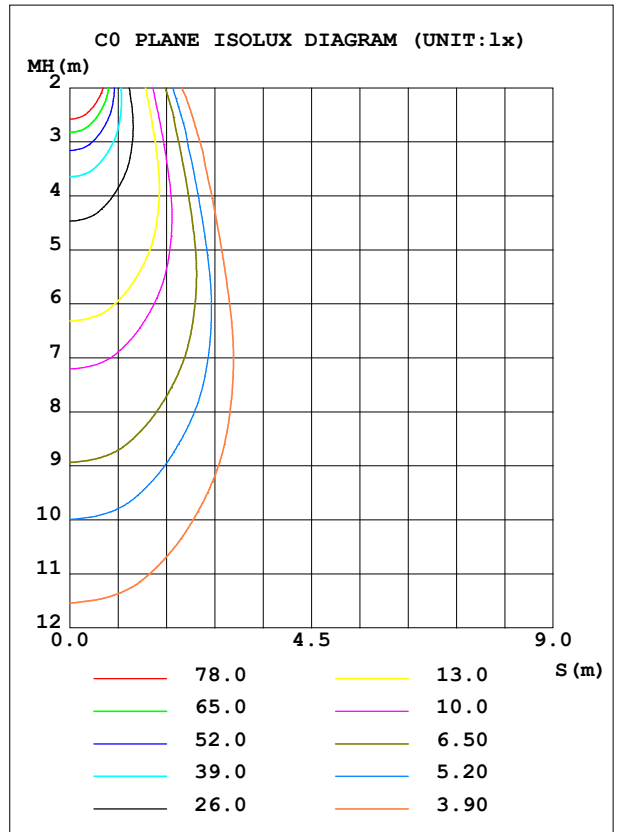
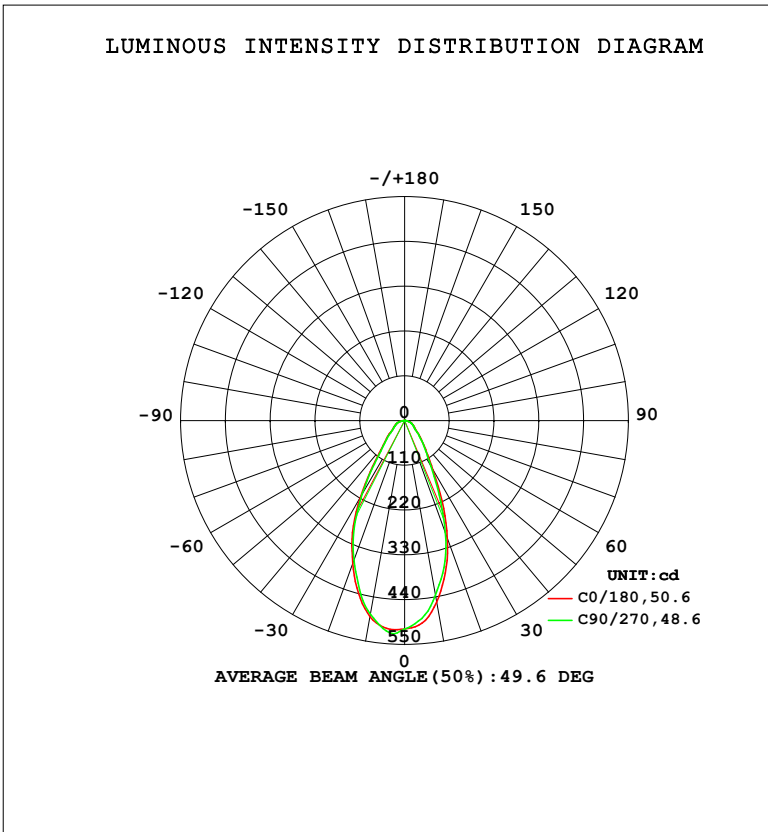


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	532.6	S/MH (C0/180)	0.85
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.84
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	456.07	η UP, DN (C0-180)	0.0,42.2
NOMINAL FLUX (lm)	456.07	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,57.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

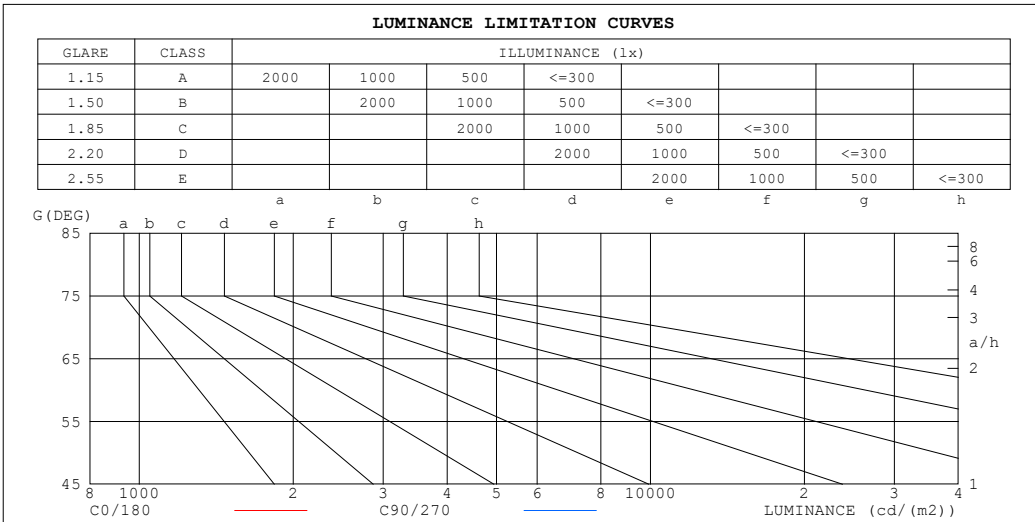
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	452.7	427.0	436.0	452.6	489.1	501.1	483.7	482.3	0- 10	46.81	46.81	10.3,10.3
20	307.4	262.5	293.3	307.4	373.2	382.7	365.2	347.9	10- 20	112.0	158.9	34.8,34.8
30	139.8	120.5	129.6	141.0	218.0	226.1	209.3	172.6	20- 30	113.3	272.2	59.7,59.7
40	68.20	61.32	66.36	69.43	86.41	91.35	82.13	74.83	30- 40	72.93	345.1	75.7,75.7
50	35.84	33.53	34.62	36.37	46.49	48.36	43.44	40.57	40- 50	43.80	388.9	85.3,85.3
60	25.49	23.87	24.38	25.02	29.50	30.02	28.61	27.95	50- 60	29.33	418.2	91.7,91.7
70	17.13	15.52	16.35	16.97	20.68	21.23	20.13	19.72	60- 70	22.48	440.7	96.6,96.6
80	3.508	2.862	4.270	4.607	7.267	8.145	5.997	5.590	70- 80	13.22	453.9	99.5,99.5
90	0.0969	0.0979	0.0949	0.0912	0.2412	0.2962	0.0770	0.0565	80- 90	2.162	456.1	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		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3 °C
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	83	97
80	184	223
75	375	392
70	457	434
65	459	435
60	466	443
55	479	454
50	509	489
45	655	629

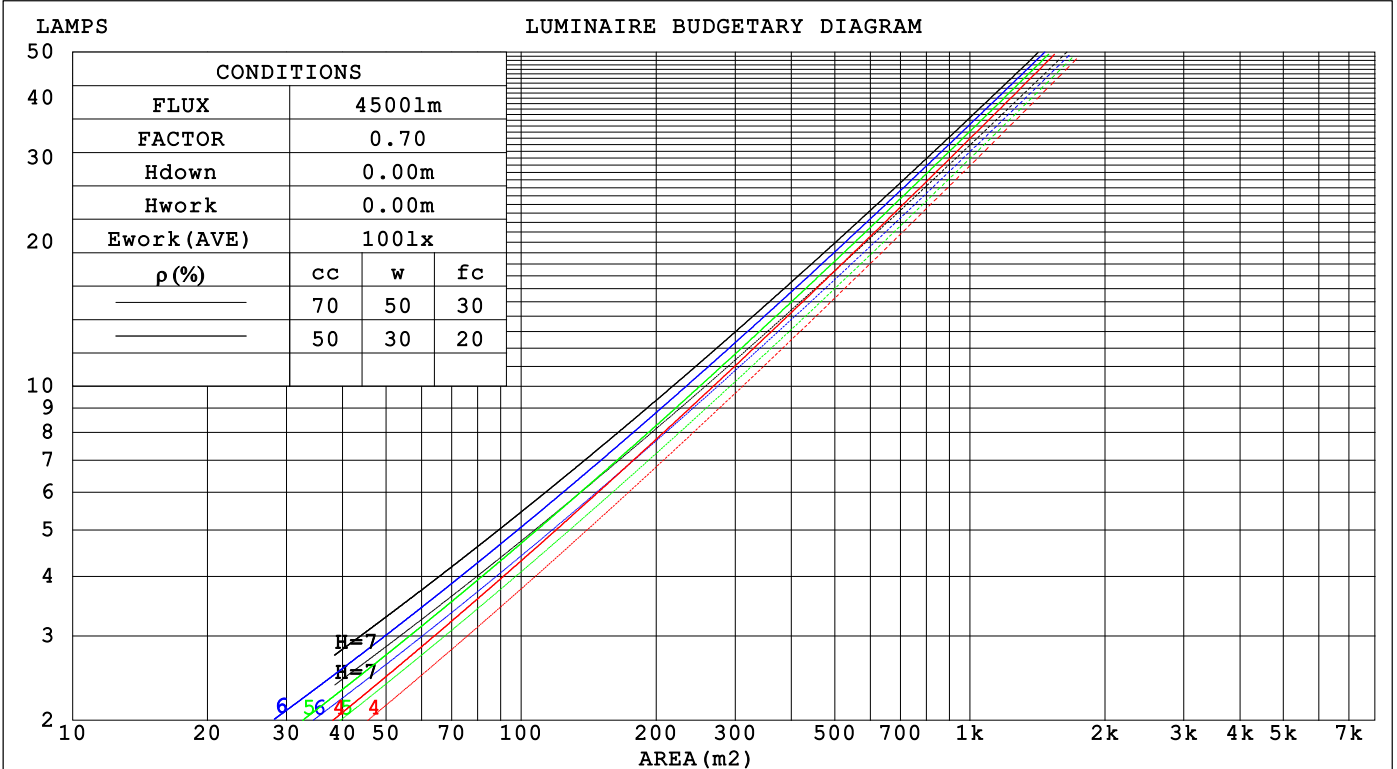
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	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 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	1.06	1.04	1.01	1.02	1.00	.98	.98	.97	.95	.95	.94	.92	.90
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81
3.0	.91	.85	.80	.89	.84	.79	.87	.82	.78	.84	.80	.77	.82	.78	.76	.74
4.0	.84	.77	.72	.83	.77	.72	.80	.75	.71	.78	.74	.70	.76	.72	.69	.68
5.0	.78	.71	.66	.77	.70	.66	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62
6.0	.72	.66	.61	.72	.65	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.58
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.64	.59	.55	.63	.59	.55	.53
8.0	.64	.57	.52	.63	.57	.52	.62	.56	.52	.61	.56	.52	.60	.55	.51	.50
9.0	.60	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.48	.57	.52	.48	.47
10.0	.57	.50	.46	.56	.50	.46	.55	.50	.46	.54	.49	.46	.54	.49	.45	.44



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.220	.125	.040	.213	.122	.039	.200	.115	.037	.189	.109	.035	.178	.103	.033	
2.0	.209	.115	.035	.203	.112	.035	.192	.107	.033	.182	.102	.032	.173	.098	.031	
3.0	.196	.104	.031	.191	.102	.031	.182	.099	.030	.173	.095	.029	.165	.091	.028	
4.0	.184	.096	.028	.179	.094	.028	.171	.091	.027	.164	.088	.027	.156	.085	.026	
5.0	.173	.088	.025	.169	.087	.025	.161	.084	.025	.155	.082	.024	.148	.079	.024	
6.0	.162	.081	.023	.159	.080	.023	.153	.078	.023	.147	.076	.022	.141	.074	.022	
7.0	.153	.076	.021	.150	.075	.021	.144	.073	.021	.139	.071	.021	.134	.070	.020	
8.0	.145	.071	.020	.142	.070	.020	.137	.069	.020	.132	.067	.019	.128	.066	.019	
9.0	.137	.066	.019	.135	.066	.018	.130	.065	.018	.126	.063	.018	.122	.062	.018	
10.0	.131	.063	.017	.128	.062	.017	.124	.061	.017	.121	.060	.017	.117	.059	.017	

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						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	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.150	.114	.085	.129	.098	.073	.088	.068	.052	.051	.040	.030	.016	.013	.010	
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.114	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.112	.066	.034	.097	.057	.030	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.030	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	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	10.2	11.3	10.4	11.5	11.7	10.0	11.2	10.3	11.3	11.5
3H	11.6	12.7	11.9	12.9	13.1	11.4	12.5	11.7	12.7	12.9
4H	12.1	13.1	12.4	13.3	13.6	12.0	13.0	12.3	13.2	13.5
6H	12.3	13.2	12.6	13.4	13.7	12.2	13.2	12.6	13.4	13.7
8H	12.2	13.1	12.6	13.4	13.7	12.2	13.1	12.6	13.4	13.7
12H	12.2	13.1	12.5	13.3	13.6	12.2	13.1	12.5	13.3	13.6
4H 2H	10.7	11.7	11.0	11.9	12.1	10.5	11.5	10.8	11.8	12.0
3H	12.3	13.1	12.6	13.4	13.7	12.2	13.0	12.5	13.3	13.6
4H	12.9	13.7	13.2	14.0	14.3	12.8	13.6	13.2	13.9	14.2
6H	13.0	13.7	13.4	14.1	14.4	13.1	13.8	13.5	14.1	14.5
8H	13.0	13.7	13.4	14.0	14.4	13.1	13.7	13.5	14.1	14.5
12H	13.0	13.6	13.4	14.0	14.4	13.1	13.7	13.5	14.0	14.4
8H 4H	13.0	13.7	13.4	14.0	14.4	13.0	13.6	13.4	14.0	14.3
6H	13.2	13.7	13.6	14.1	14.6	13.3	13.8	13.7	14.2	14.6
8H	13.2	13.7	13.6	14.1	14.5	13.3	13.7	13.7	14.2	14.6
12H	13.2	13.6	13.6	14.0	14.5	13.3	13.7	13.7	14.1	14.6
12H 4H	13.0	13.6	13.4	13.9	14.3	12.9	13.5	13.3	13.9	14.3
6H	13.2	13.6	13.6	14.1	14.5	13.2	13.7	13.7	14.1	14.6
8H	13.2	13.6	13.6	14.0	14.5	13.3	13.7	13.7	14.1	14.6

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.3 / - 0.4	+ 0.3 / - 0.4
1.5H	+ 0.5 / - 0.3	+ 0.4 / - 0.4
2.0H	+ 0.7 / - 0.4	+ 0.6 / - 0.3

CIE Pub.117, 456.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.7)
 Area: 0.111111 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

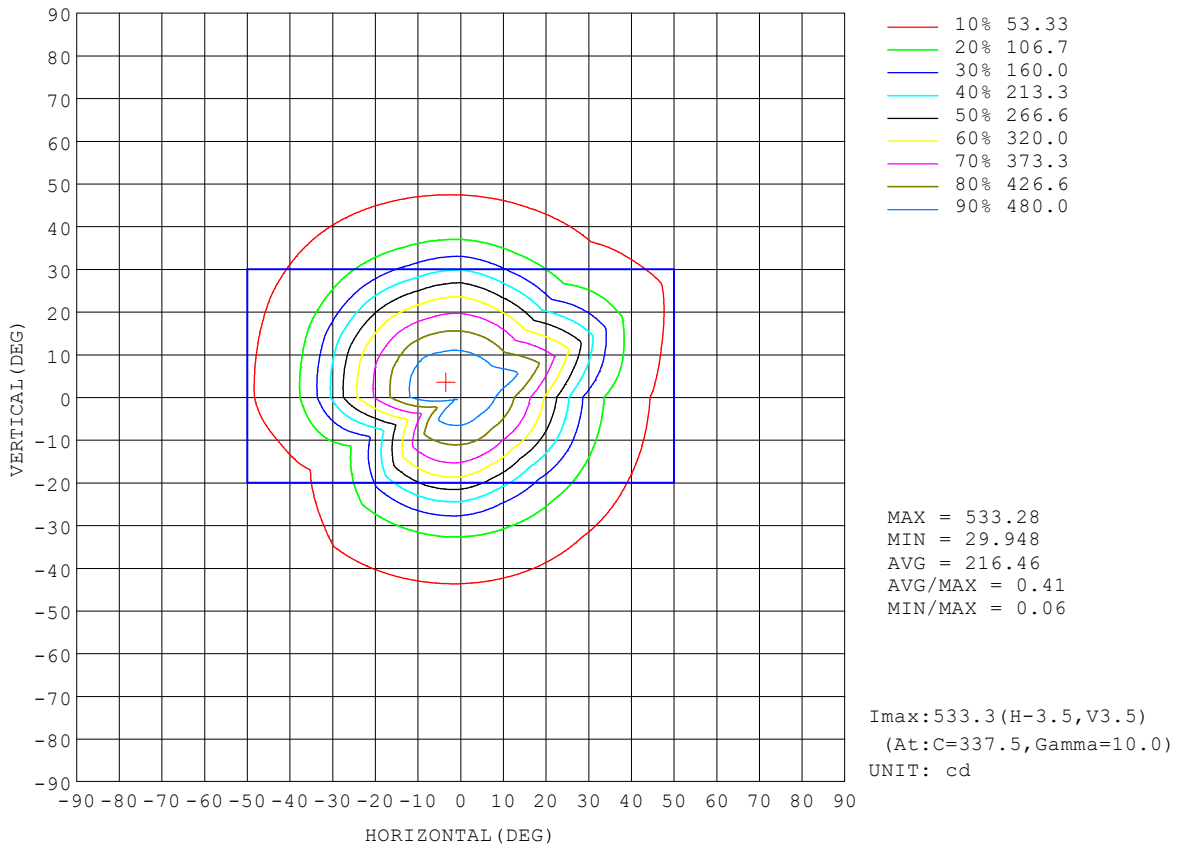
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	68	63	76	68	63	75	68	63	59
0.80	85	77	72	84	77	72	83	76	71	67
1.00	91	83	78	90	83	78	88	83	78	72
1.25	96	89	84	95	88	84	93	87	83	78
1.50	99	93	88	98	92	88	96	91	87	81
2.00	104	98	94	102	97	93	99	95	91	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	106	103	105	102	100	92
5.00	113	110	107	111	108	105	106	104	102	94
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:24.3°C
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:



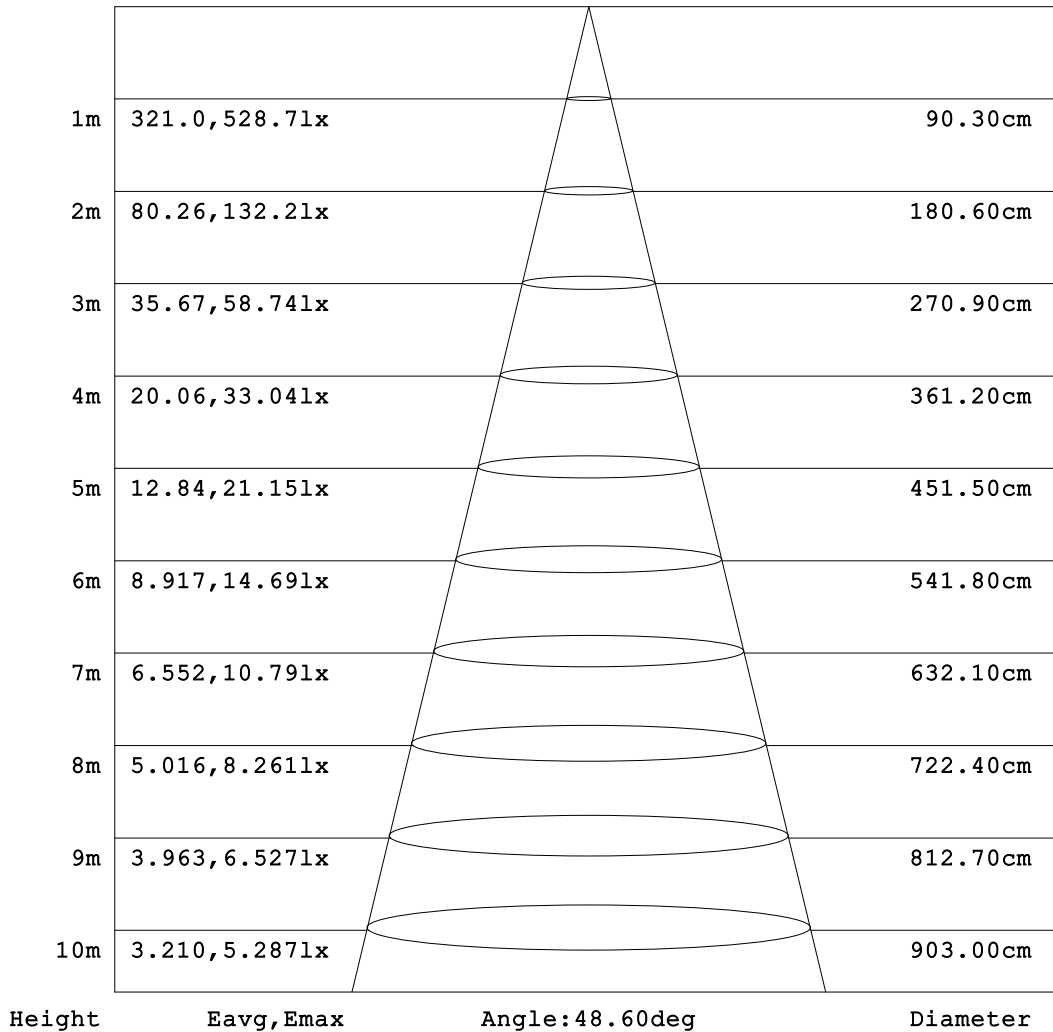
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3°C
 Operators:
 Test Date: 2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

AAI Figure

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

Flux out:219.3 lm



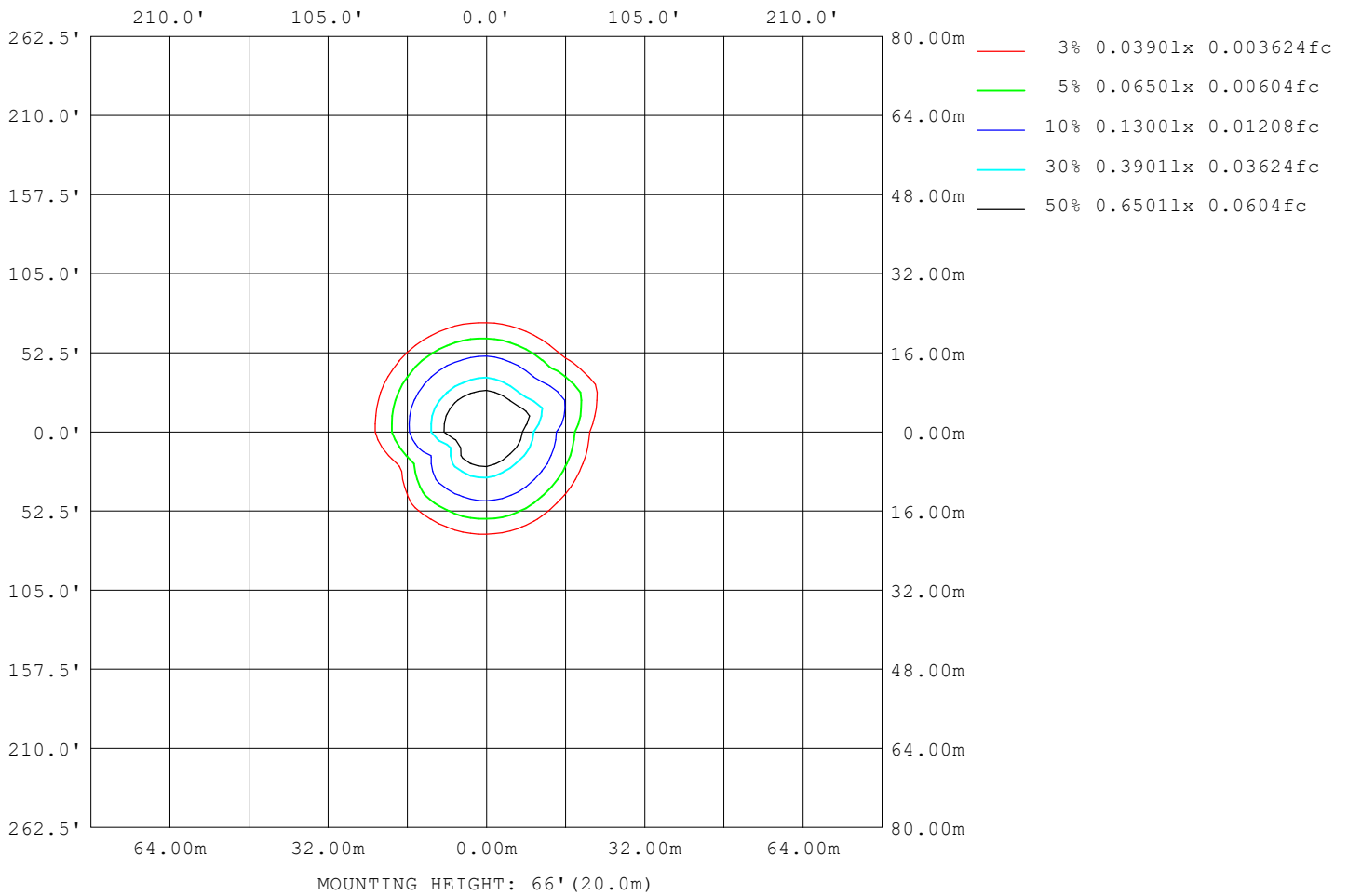
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.277V I:0.2667A P:6.4755W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:456.07x1 lm		
NAME: LED-1-S6W-30K-WH-24V-G	TYPE:	WEIGHT:
SPEC.: 3000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

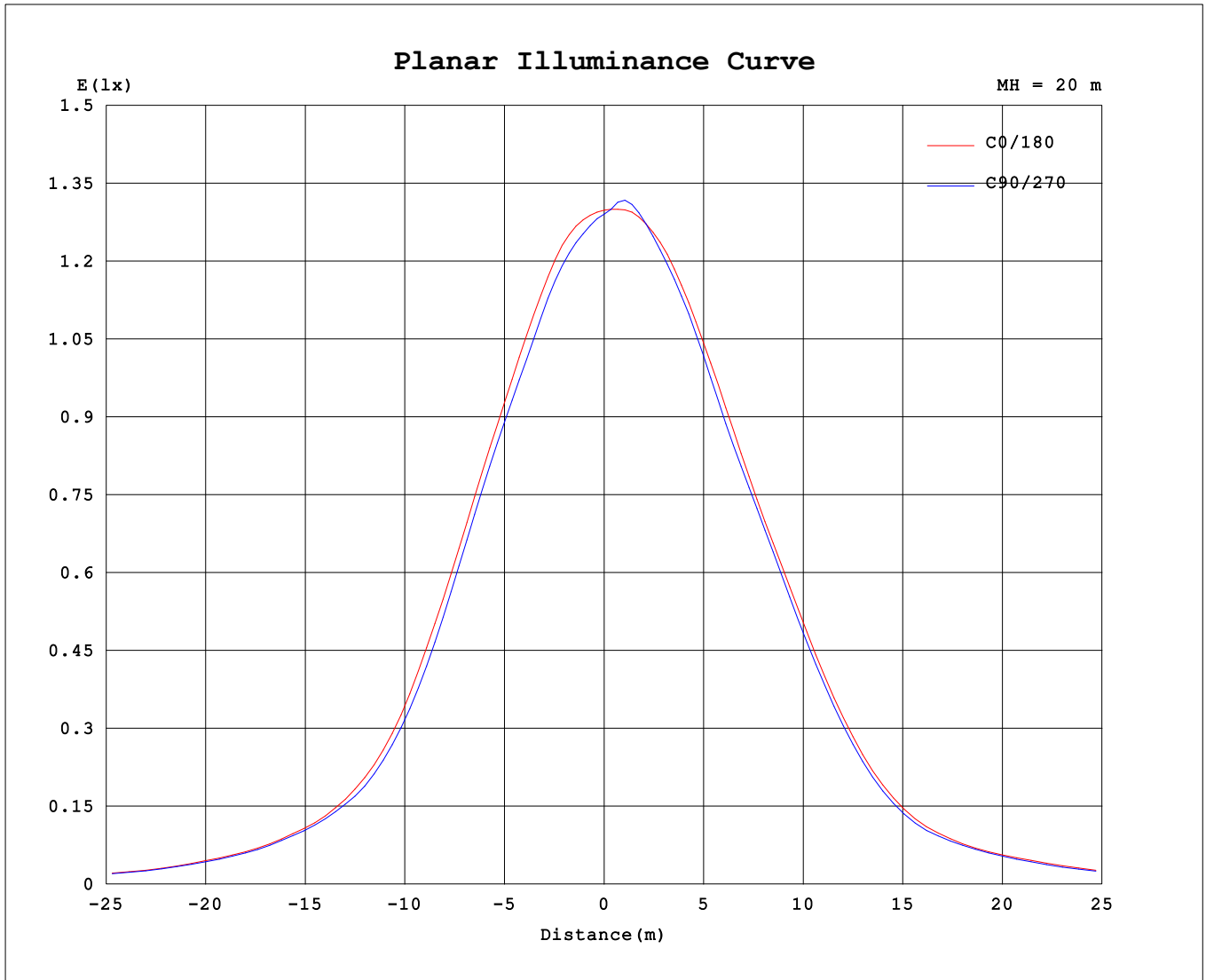
AvgL	cd/m2
L_0~180 (65) av	492
L_0~180 (75) av	458
L_0~180 (85) av	120
L_90~270 (65) av	474
L_90~270 (75) av	447
L_90~270 (85) av	112
L_45 (65) av	478
L_45 (75) av	449
L_45 (85) av	122

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-03-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

