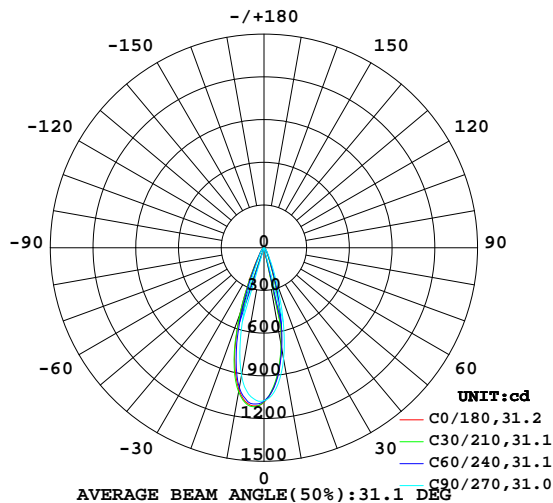


LUMINAIRE PHOTOMETRIC TEST REPORT

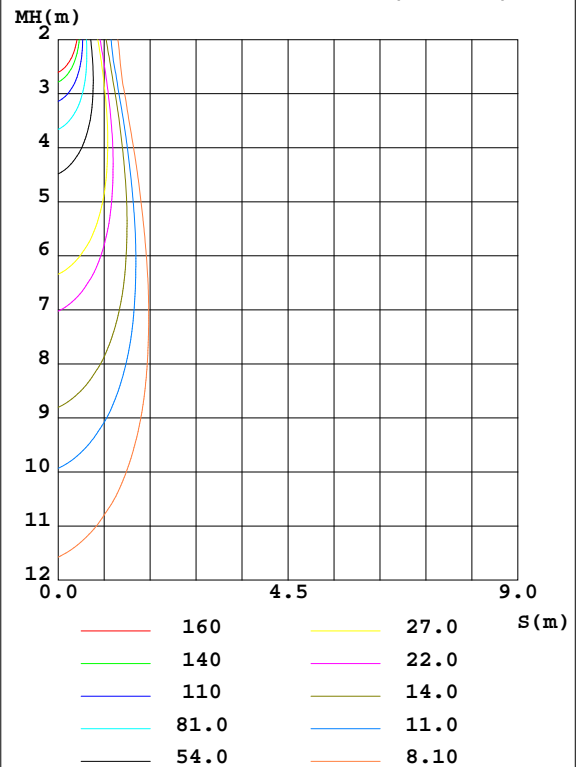
Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm					
NAME: 40004-6W-3000K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:88		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 63.24 lm/W
MODEL	40004	I _{max} (cd)	1120	S/MH(C0/180)	0.59	
NOMINAL POWER(W)	6W	LOR(%)	100.0	S/MH(C90/270)	0.51	
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	366.03	η UP,DN(C0-180)	0.0,45.0	
NOMINAL FLUX(lm)	366.034	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,55.0	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220.0	η down(%)	100.0	CIBSE SHR MAX	0.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2022-06-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:3.106m [K=1.0000]
 Remarks: 3197-60°

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

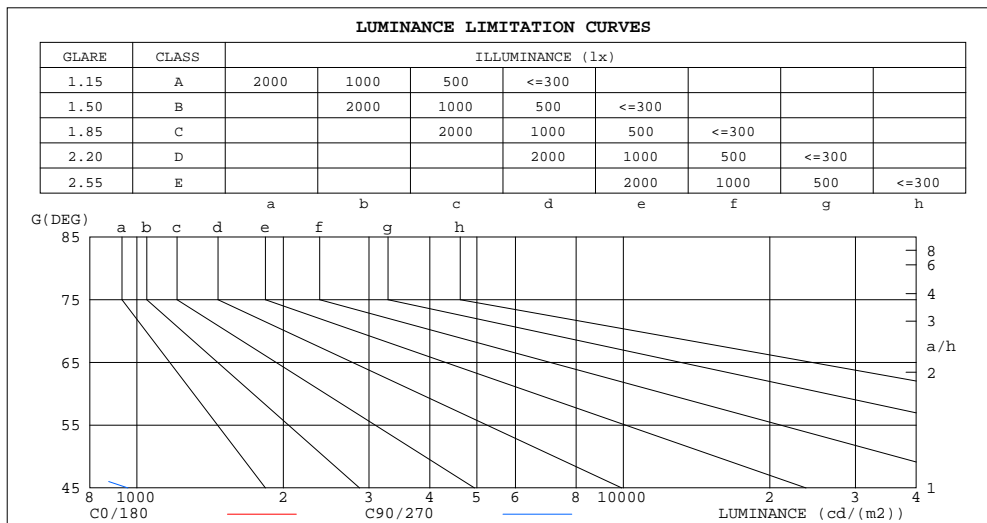
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	699.6	705.3	791.6	920.6	1014	1013	910.8	762.4	0- 10	92.10	92.10	25.2,25.2
20	164.4	178.2	261.4	392.0	490.8	460.8	316.1	198.1	10- 20	156.0	248.1	67.8,67.8
30	51.45	51.85	65.16	83.40	99.77	85.56	67.82	56.98	20- 30	68.47	316.6	86.5,86.5
40	22.28	21.79	26.30	32.49	37.28	36.51	32.09	25.68	30- 40	28.34	345.0	94.2,94.2
50	6.584	6.282	8.499	12.52	16.09	15.09	11.95	8.205	40- 50	14.55	359.5	98.2,98.2
60	1.549	1.764	2.153	2.822	4.259	3.885	3.232	2.176	50- 60	5.056	364.6	99.6,99.6
70	0	0	0	0.4407	0.8846	1.442	0.1954	0	60- 70	1.422	366.0	100,100
80	0	0	0	0	0	0	0	0	70- 80	0.0485	366.0	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	366.0	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: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	29	123
60	129	179
55	225	258
50	427	551
45	780	958

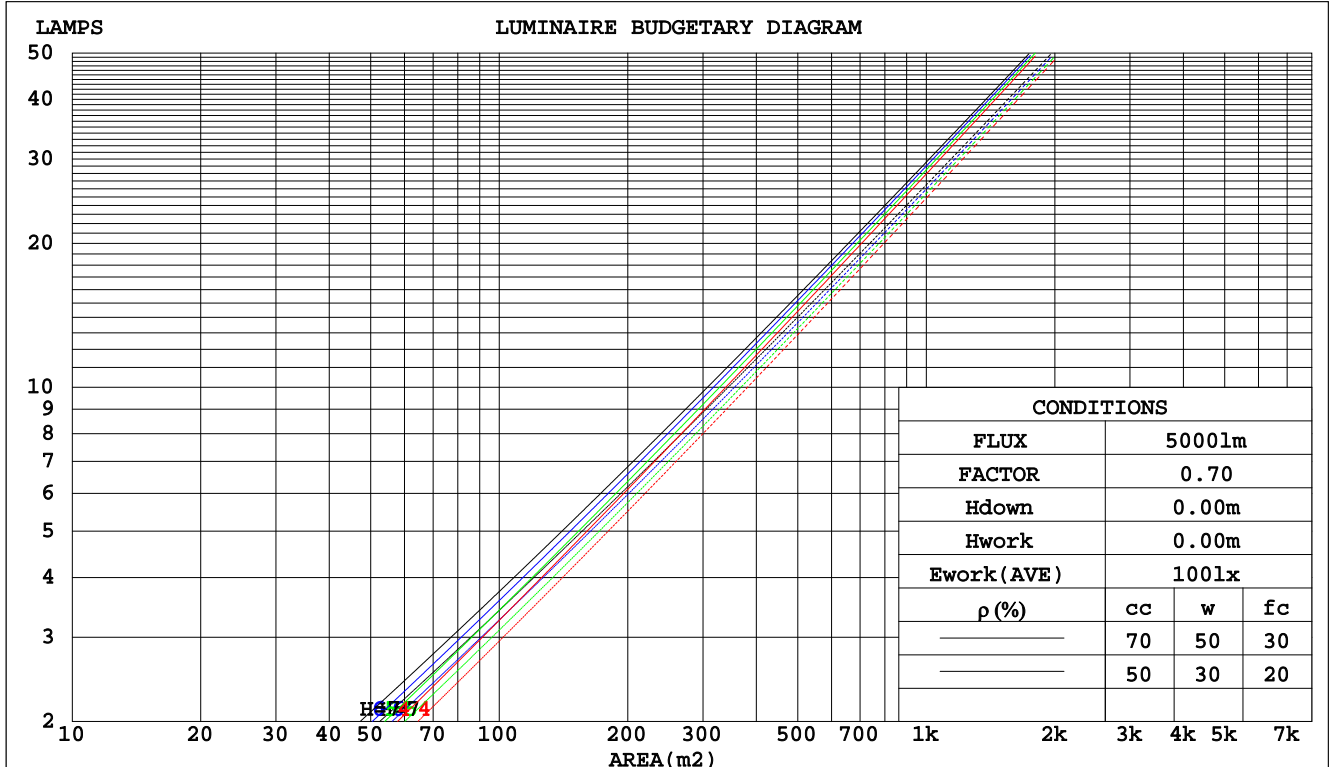
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.06	1.02	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.83	.79	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
9.0	.77	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.72	.69	.66	.65



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

WEC AND CCEC

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	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	.153	.087	.027	.146	.083	.026	.133	.077	.024	.122	.070	.023	.111	.065	.021		
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.020		
3.0	.135	.072	.022	.131	.070	.021	.122	.066	.020	.114	.062	.019	.106	.059	.018		
4.0	.128	.066	.020	.124	.065	.019	.116	.062	.018	.110	.059	.018	.103	.056	.017		
5.0	.121	.062	.018	.118	.060	.018	.111	.058	.017	.105	.056	.017	.100	.053	.016		
6.0	.115	.058	.016	.112	.057	.016	.106	.055	.016	.101	.053	.015	.096	.051	.015		
7.0	.109	.054	.015	.107	.053	.015	.102	.052	.015	.097	.050	.015	.093	.048	.014		
8.0	.104	.051	.014	.102	.050	.014	.098	.049	.014	.094	.047	.014	.090	.046	.013		
9.0	.100	.048	.013	.098	.048	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013		
10.0	.096	.046	.013	.094	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.012		

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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.077	.049	.030	.054	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

UGR(Unified Glare Rating) Table

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm										
NAME: 40004-6W-3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:88			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	6.0	6.8	6.2	6.9	7.1	6.9	7.7	7.1	7.8	8.0
3H	5.9	6.6	6.1	6.8	7.0	6.8	7.5	7.0	7.7	7.9
4H	5.8	6.5	6.1	6.7	6.9	6.7	7.4	6.9	7.6	7.8
6H	5.7	6.3	6.0	6.6	6.8	6.6	7.2	6.9	7.5	7.7
8H	5.7	6.3	6.0	6.5	6.8	6.5	7.2	6.8	7.4	7.7
12H	5.6	6.2	5.9	6.5	6.7	6.5	7.1	6.8	7.3	7.6
4H 2H	5.9	6.5	6.1	6.7	6.9	6.7	7.4	7.0	7.6	7.8
3H	5.7	6.3	6.0	6.5	6.8	6.5	7.1	6.9	7.4	7.7
4H	5.6	6.1	5.9	6.4	6.7	6.5	7.0	6.8	7.3	7.6
6H	5.5	6.0	5.8	6.3	6.6	6.4	6.8	6.7	7.2	7.5
8H	5.4	5.9	5.8	6.2	6.6	6.3	6.7	6.7	7.1	7.5
12H	5.4	5.8	5.8	6.1	6.5	6.2	6.6	6.7	7.0	7.4
8H 4H	5.4	5.9	5.8	6.2	6.6	6.3	6.7	6.7	7.1	7.5
6H	5.3	5.7	5.7	6.1	6.5	6.2	6.6	6.6	6.9	7.4
8H	5.3	5.6	5.7	6.0	6.4	6.1	6.5	6.6	6.9	7.3
12H	5.2	5.5	5.7	5.9	6.4	6.1	6.3	6.5	6.8	7.3
12H 4H	5.4	5.8	5.8	6.1	6.5	6.2	6.6	6.7	7.0	7.4
6H	5.3	5.6	5.7	6.0	6.4	6.1	6.5	6.6	6.9	7.3
8H	5.2	5.5	5.7	5.9	6.4	6.1	6.3	6.5	6.8	7.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 7.4					+ 2.8 / - 7.1				
1.5H	+ 3.7 / - 6.3					+ 4.0 / - 6.5				
2.0H	+ 5.7 / - 6.9					+ 6.0 / - 6.1				

CIE Pub.117, 366.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.5)
Area: 0.024 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

UTILIZATION FACTORS TABLE

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	Shielding Angle:

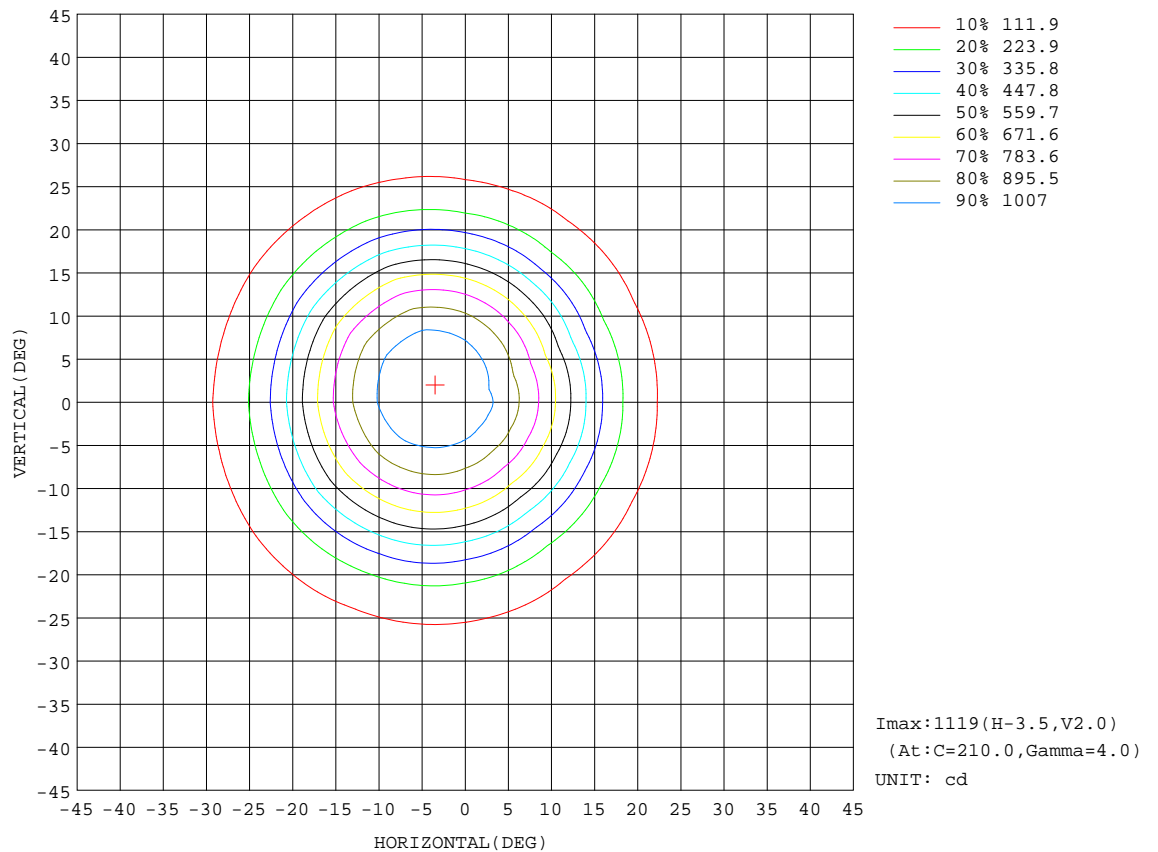
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	87	81	78	87	81	78	74
0.80	95	90	86	95	89	86	93	89	85	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

ISOCANDELA DIAGRAM

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	Shielding Angle:

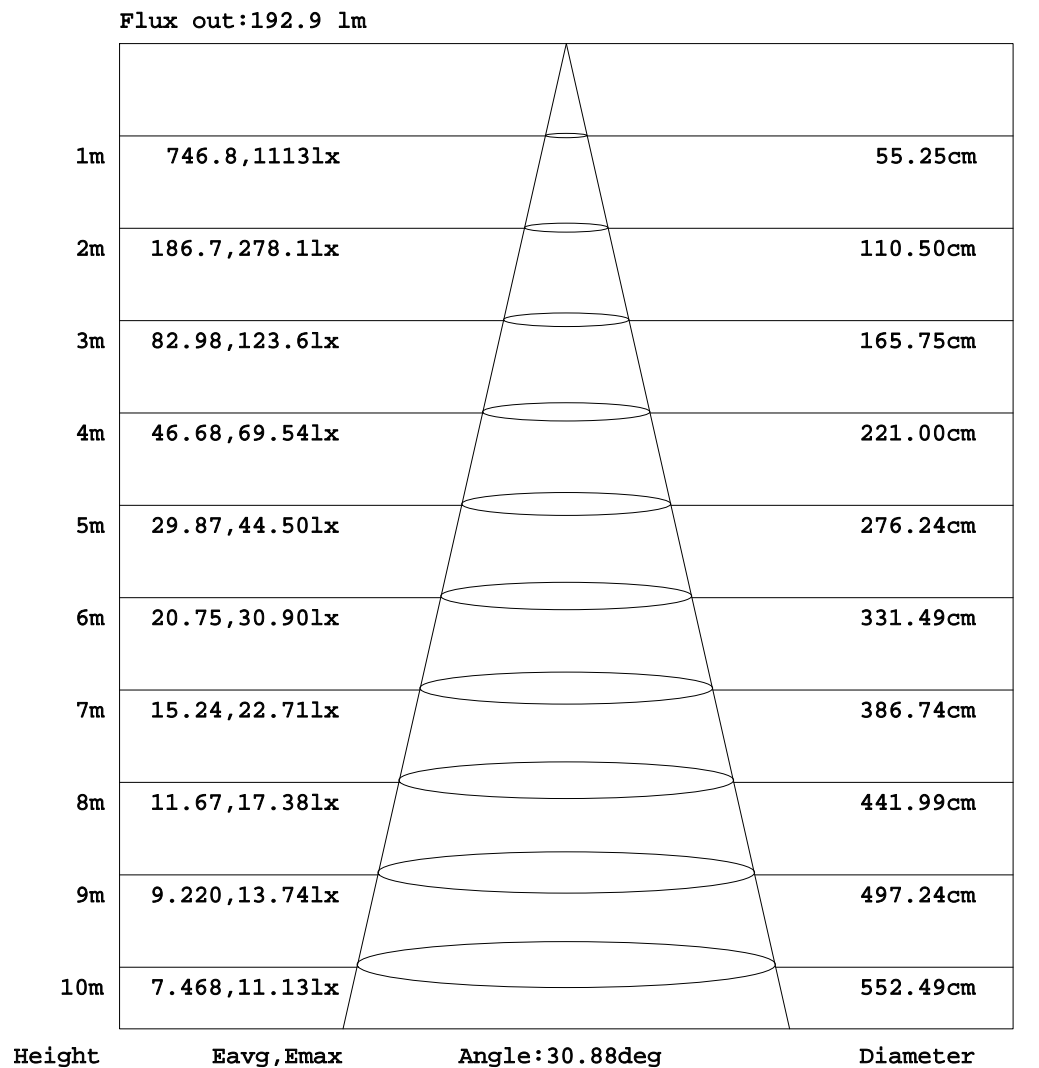


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

AAI Figure

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	Shielding Angle:



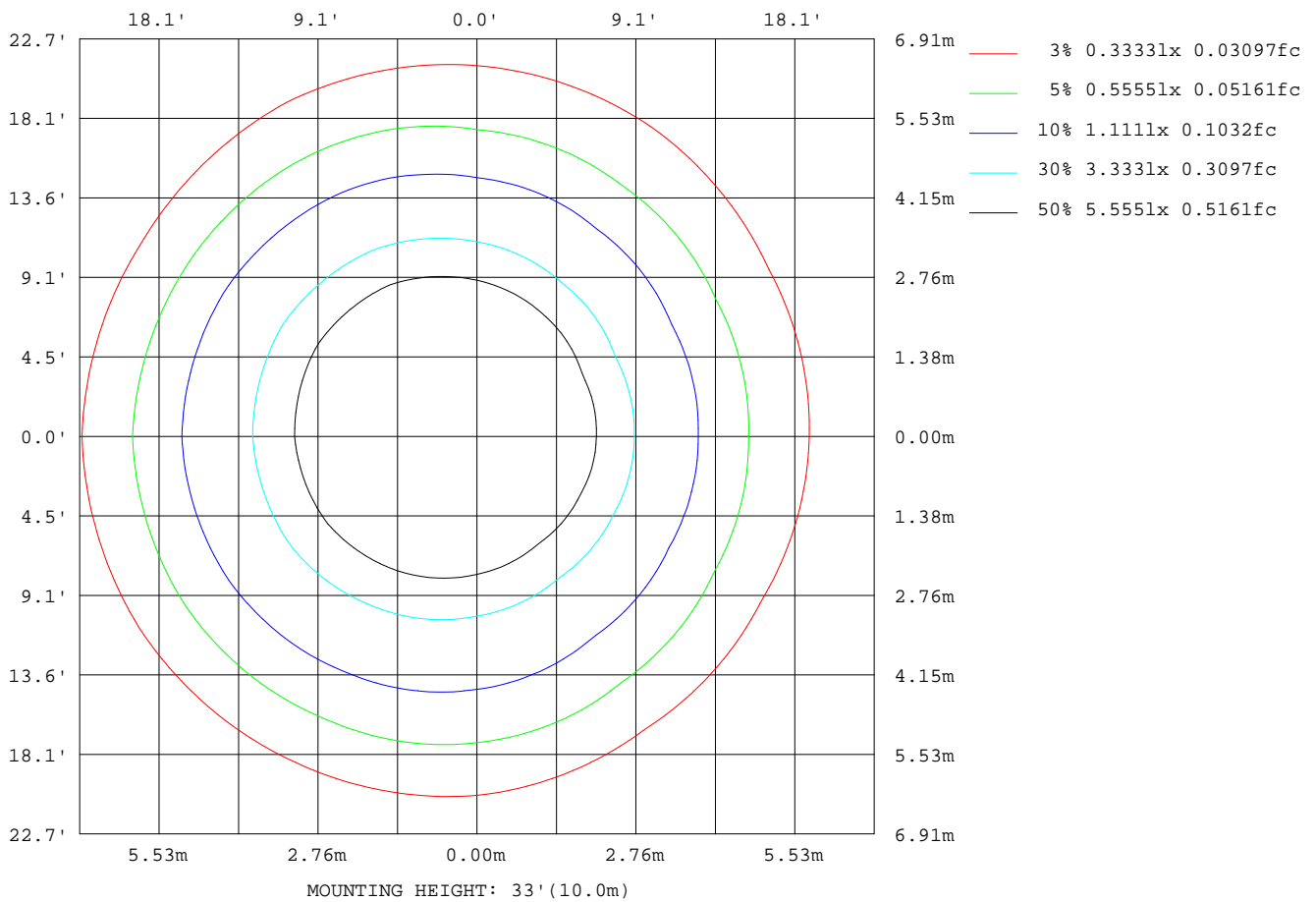
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

ISOLUX DIAGRAM

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

LED Avg.L Report

Test:U:47.997V I:0.1206A P:5.7884W PF:1.0000 Freq:49.99Hz Lamp Flux:366.034x1 lm		
NAME: 40004-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:88	Shielding Angle:

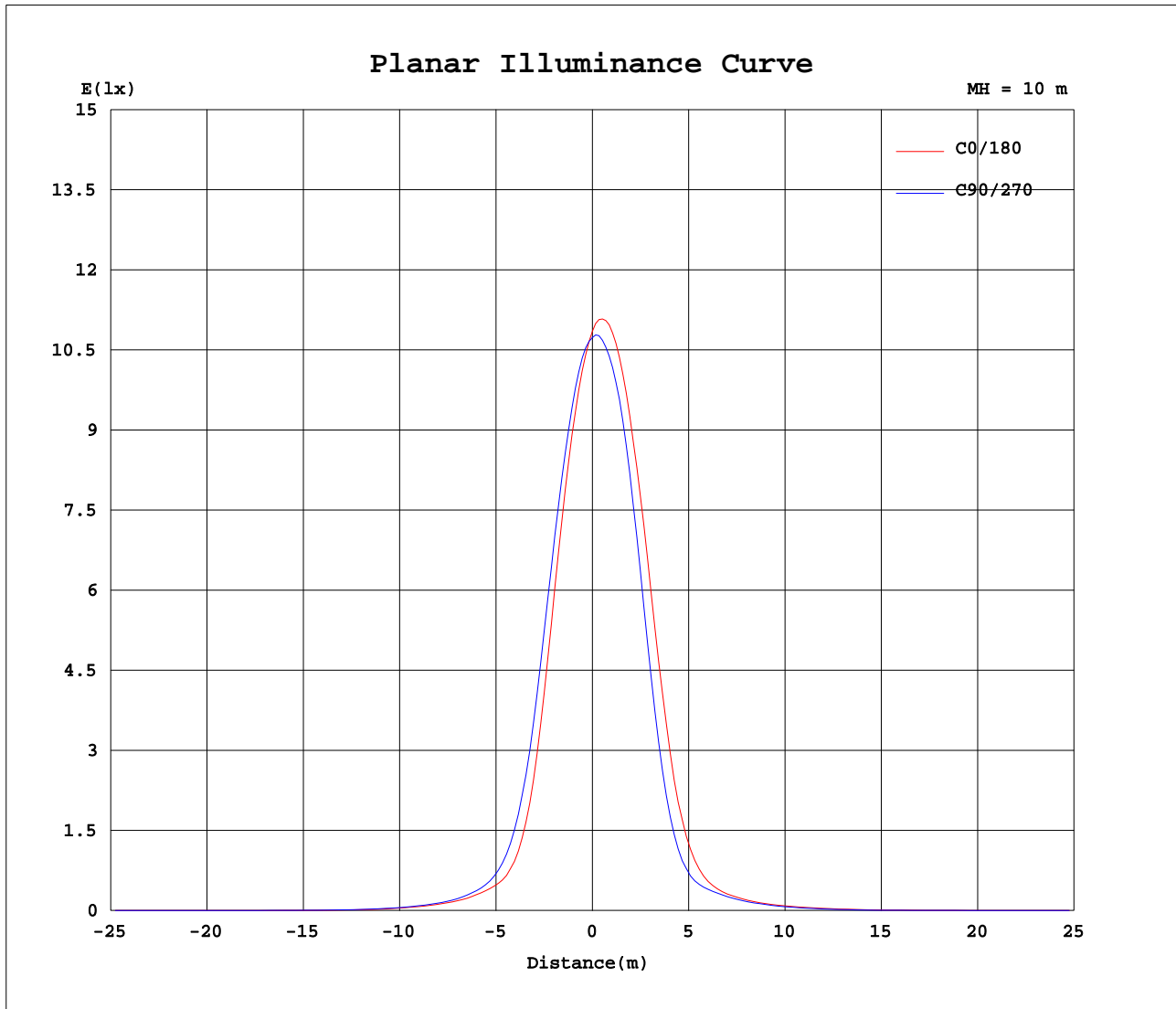
AvgL	cd/m2
L_0~180(65)av	115
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	158
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	140
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2022-06-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2022-06-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.106m [K=1.0000]
Remarks: 3197-60°

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.106m [K=1.0000]
Remarks: 3197-60°

```