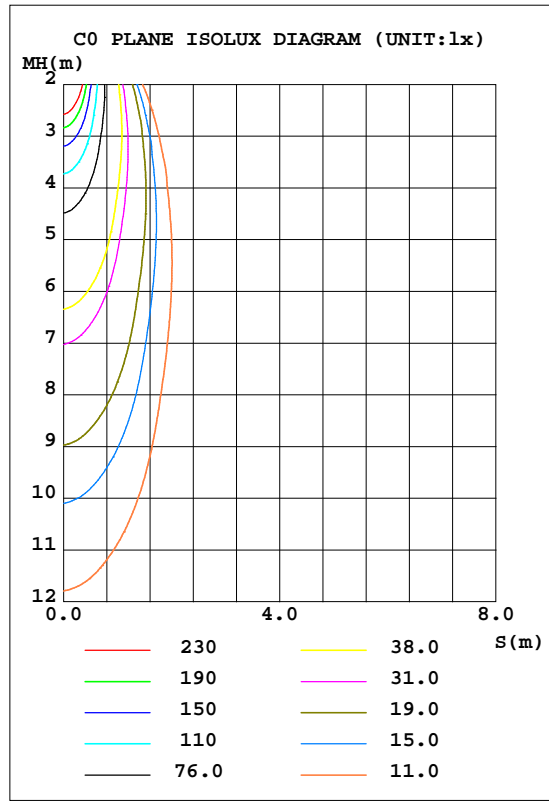
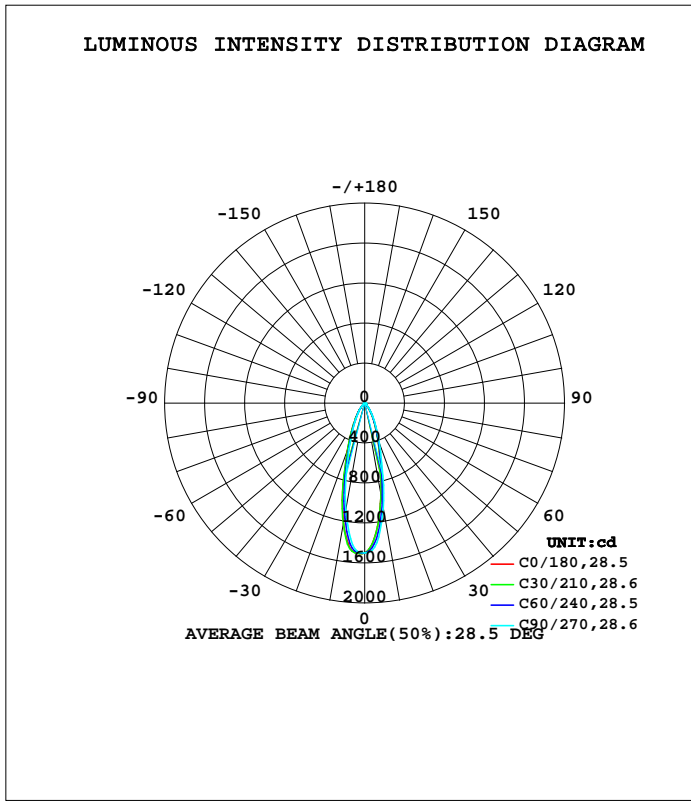


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 90.65 lm/W
MODEL		I _{max} (cd)	1508	S/MH(C0/180)		0.54
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)		0.48
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	567.93	η UP, DN(C0-180)		0.0,48.0
NOMINAL FLUX(lm)	567.926	CIE CLASS	DIRECT	η UP, DN(C180-360)		0.0,52.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX		0.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-04-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

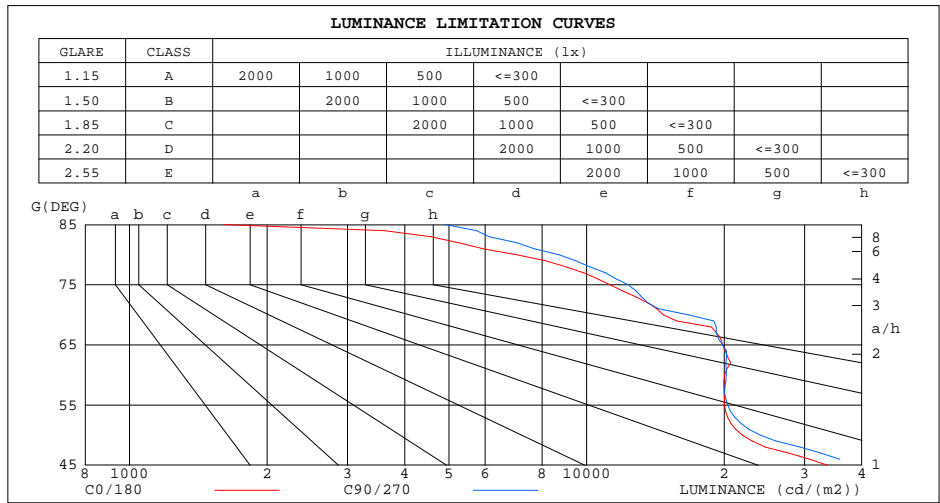
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	\$lum,lamp
10	941.4	963.4	1070	1112	1224	1207	1090	1048	0- 10	123.4	123.4	21.7,21.7
20	395.0	398.8	434.3	460.2	515.3	490.1	437.0	433.3	10- 20	196.5	319.9	56.3,56.3
30	158.9	161.6	177.1	184.3	197.4	188.8	176.0	176.7	20- 30	130.8	450.7	79.4,79.4
40	49.72	52.36	60.49	62.01	69.38	66.22	61.16	59.65	30- 40	69.07	519.7	91.5,91.5
50	13.81	13.21	15.46	15.16	16.88	17.32	16.79	15.55	40- 50	24.10	543.8	95.8,95.8
60	9.818	9.305	10.11	10.30	10.76	10.92	11.09	10.88	50- 60	10.92	554.8	97.7,97.7
70	4.931	4.741	5.715	6.634	7.478	7.560	7.167	6.760	60- 70	8.611	563.4	99.2,99.2
80	1.193	1.151	1.512	1.685	2.368	2.397	1.972	1.769	70- 80	3.875	567.3	99.9,99.9
90	0.0022	0	0.0015	0.0008	0.0160	0.0140	0.0104	0.0143	80- 90	0.6691	567.9	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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-04-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1606	4909
80	7012	8698
75	11250	12331
70	14719	16695
65	19837	19836
60	20048	20204
55	20044	20364
50	21934	24029
45	33704	40972

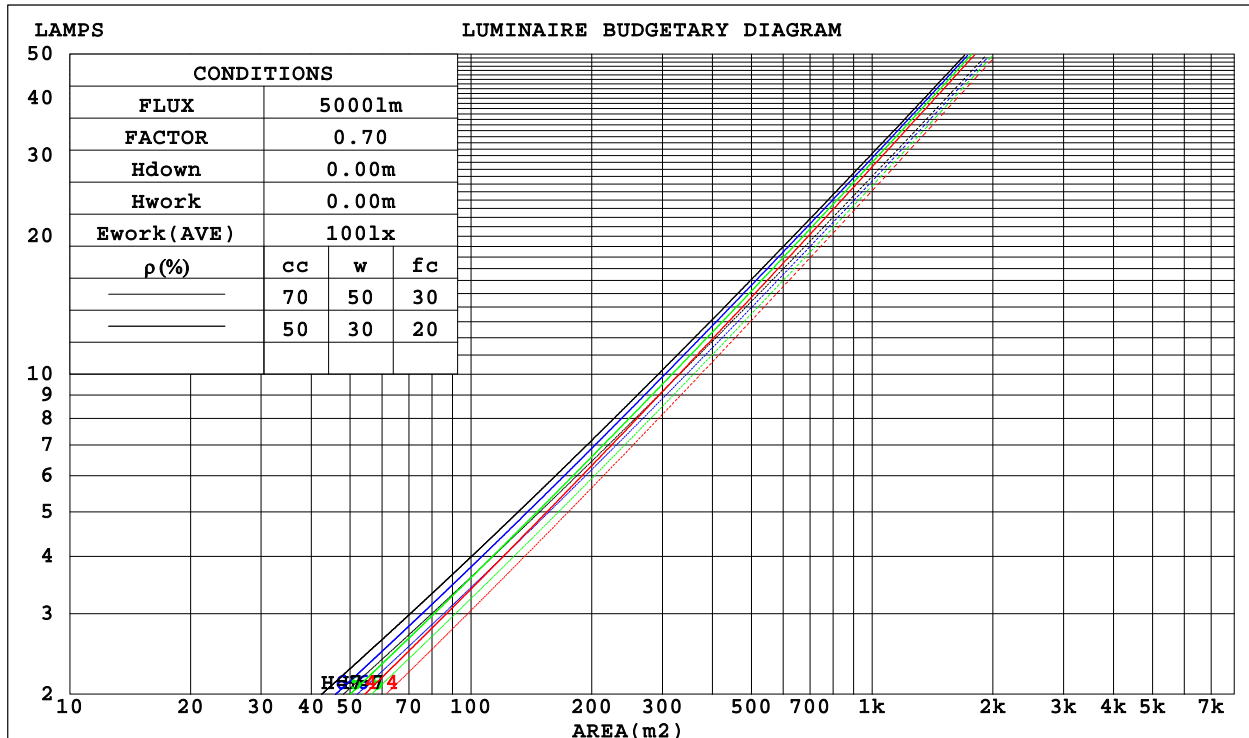
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-04-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	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						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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.91	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.93	.88	.84	.91	.87	.83	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
5.0	.88	.82	.79	.87	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.76	.75
6.0	.83	.78	.74	.83	.78	.74	.81	.77	.73	.80	.76	.73	.79	.75	.72	.71
7.0	.79	.74	.70	.79	.74	.70	.78	.73	.70	.76	.72	.69	.75	.72	.69	.68
8.0	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.66	.72	.69	.66	.65
9.0	.73	.67	.64	.72	.67	.64	.71	.67	.64	.70	.66	.63	.70	.66	.63	.62
10.0	.70	.65	.61	.69	.64	.61	.69	.64	.61	.68	.64	.61	.67	.63	.61	.60



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-04-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	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	.169	.096	.030	.162	.093	.029	.150	.086	.027	.138	.080	.026	.128	.074	.024	
2.0	.160	.088	.027	.154	.085	.026	.144	.080	.025	.134	.075	.024	.125	.071	.022	
3.0	.150	.080	.024	.146	.078	.023	.137	.074	.023	.129	.070	.022	.121	.067	.021	
4.0	.142	.074	.022	.138	.072	.021	.130	.069	.021	.123	.066	.020	.116	.063	.019	
5.0	.134	.068	.020	.131	.067	.020	.124	.065	.019	.118	.062	.018	.112	.060	.018	
6.0	.127	.064	.018	.124	.063	.018	.118	.061	.018	.113	.059	.017	.108	.057	.017	
7.0	.121	.060	.017	.118	.059	.017	.113	.057	.016	.108	.055	.016	.104	.054	.016	
8.0	.115	.056	.016	.113	.055	.016	.108	.054	.015	.104	.053	.015	.100	.051	.015	
9.0	.110	.053	.015	.108	.052	.015	.104	.051	.015	.100	.050	.014	.096	.049	.014	
10.0	.105	.050	.014	.103	.050	.014	.100	.049	.014	.096	.048	.014	.093	.047	.013	

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	.171	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.054	.072	.052	.038	.041	.031	.022	.013	.010	.007	
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.106	.069	.044	.091	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.100	.063	.038	.086	.055	.033	.059	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.094	.058	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.090	.053	.029	.077	.046	.025	.054	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm										
NAME: 486769-MR16-6W-3000K-25°					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:35mm			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	19.3	20.2	19.5	20.3	20.5	19.8	20.7	20.1	20.9	21.0
3H	19.8	20.6	20.1	20.8	21.0	20.3	21.1	20.5	21.3	21.5
4H	19.9	20.7	20.2	20.9	21.1	20.4	21.1	20.7	21.3	21.6
6H	19.9	20.6	20.2	20.9	21.1	20.4	21.1	20.7	21.3	21.6
8H	19.9	20.6	20.2	20.8	21.1	20.4	21.1	20.7	21.3	21.6
12H	19.8	20.5	20.2	20.8	21.0	20.4	21.0	20.7	21.3	21.5
4H 2H	19.4	20.2	19.7	20.4	20.6	19.9	20.6	20.2	20.9	21.1
3H	20.0	20.7	20.3	20.9	21.2	20.5	21.1	20.8	21.4	21.6
4H	20.2	20.8	20.5	21.0	21.4	20.6	21.2	20.9	21.5	21.8
6H	20.2	20.7	20.6	21.1	21.4	20.7	21.2	21.0	21.5	21.9
8H	20.2	20.7	20.6	21.0	21.4	20.7	21.1	21.0	21.5	21.9
12H	20.1	20.6	20.5	20.9	21.3	20.6	21.1	21.0	21.4	21.8
8H 4H	20.1	20.6	20.5	21.0	21.3	20.6	21.1	21.0	21.4	21.8
6H	20.2	20.6	20.6	21.0	21.4	20.7	21.1	21.1	21.4	21.9
8H	20.2	20.5	20.6	21.0	21.4	20.6	21.0	21.1	21.4	21.9
12H	20.1	20.4	20.6	20.9	21.4	20.6	20.9	21.1	21.4	21.8
12H 4H	20.1	20.5	20.5	20.9	21.3	20.5	21.0	20.9	21.3	21.7
6H	20.2	20.5	20.6	20.9	21.4	20.6	21.0	21.1	21.4	21.8
8H	20.1	20.5	20.6	20.9	21.4	20.6	20.9	21.1	21.4	21.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 1.9					+ 1.8 / - 2.1				
1.5H	+ 3.4 / - 1.8					+ 3.6 / - 2.3				
2.0H	+ 1.4 / - 1.0					+ 2.2 / - 1.0				

CIE Pub.117, 567.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.0)
Area: 0.001 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:

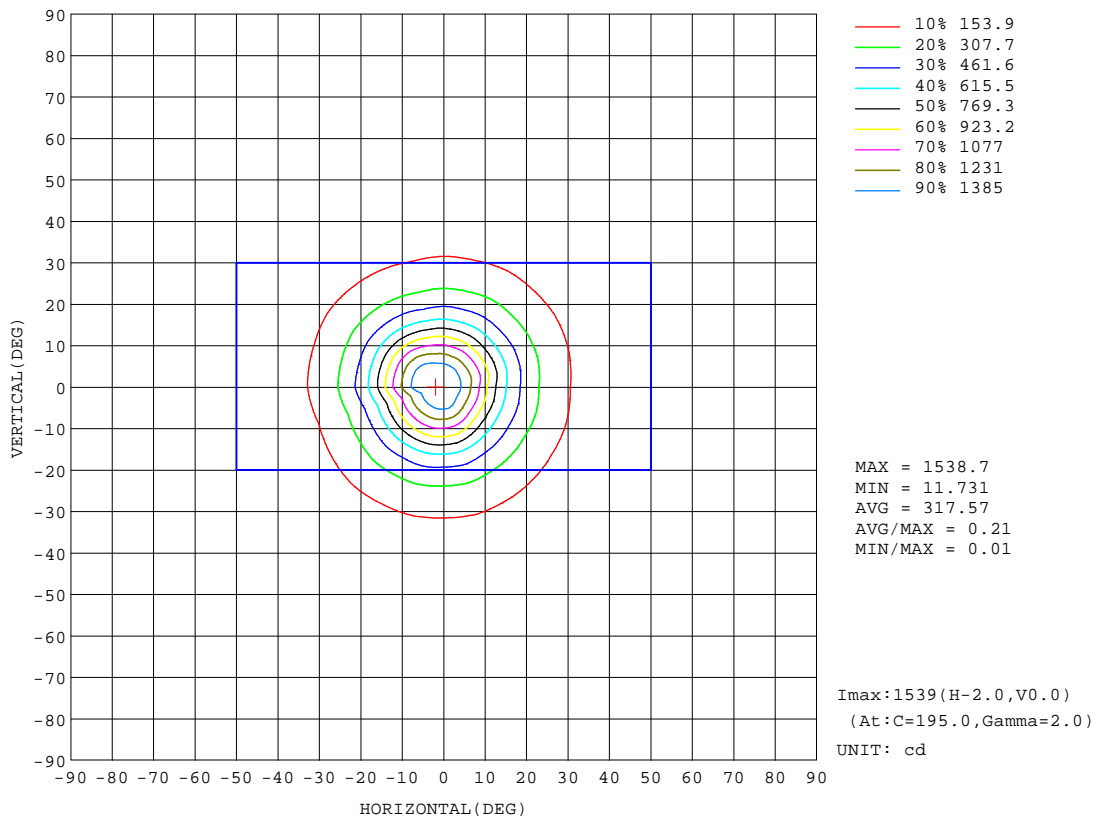
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	87	84	92	87	83	80
1.00	98	92	89	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:



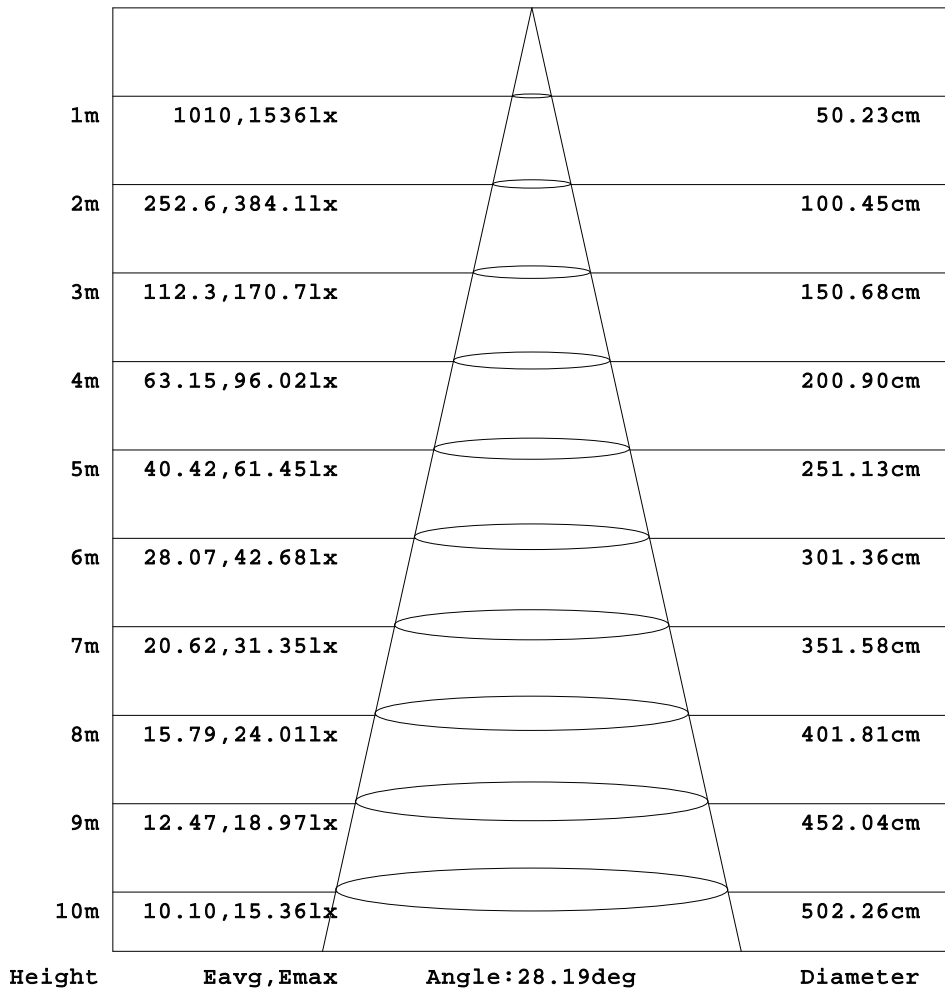
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-04-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:

Flux out:227.9 lm



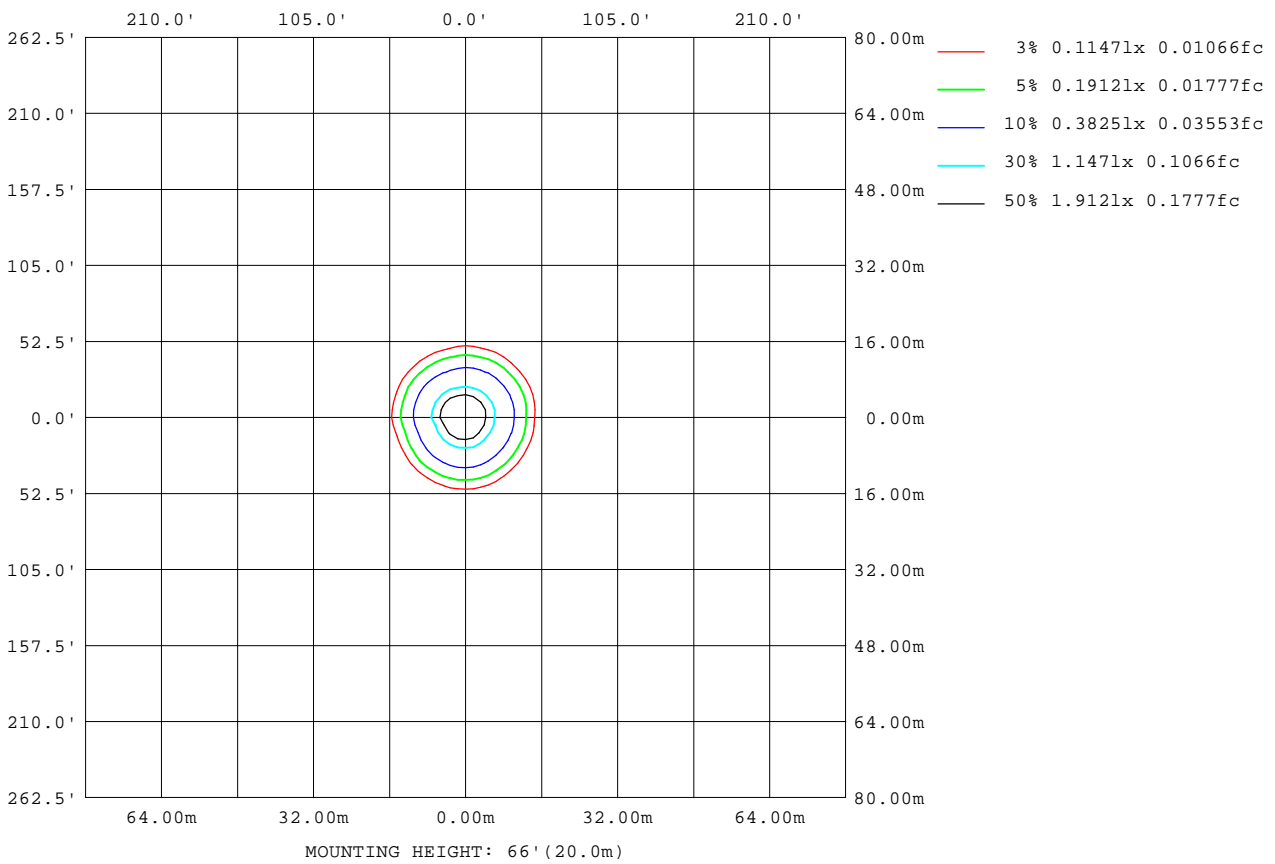
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:11.850V I:0.7073A P:6.2649W PF:0.7475 Freq:60.00Hz Lamp Flux:567.926x1 lm		
NAME: 486769-MR16-6W-3000K-25°	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:35mm	Shielding Angle:

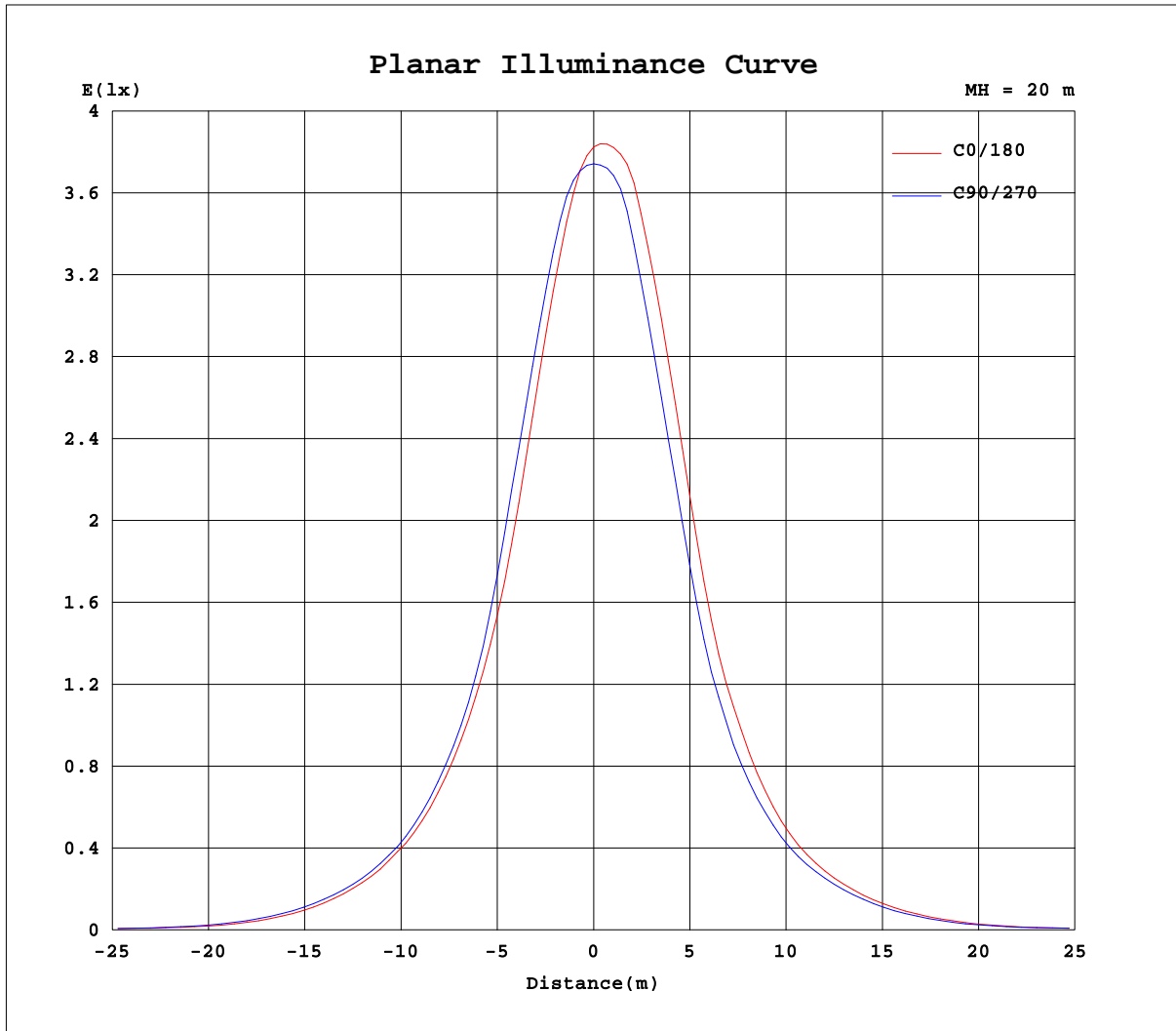
AvgL	cd/m2
L_0~180(65)av	20745
L_0~180(75)av	13959
L_0~180(85)av	5569
L_90~270(65)av	21237
L_90~270(75)av	13669
L_90~270(85)av	5757
L_45(65)av	20839
L_45(75)av	13308
L_45(85)av	5508

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-04-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-04-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

