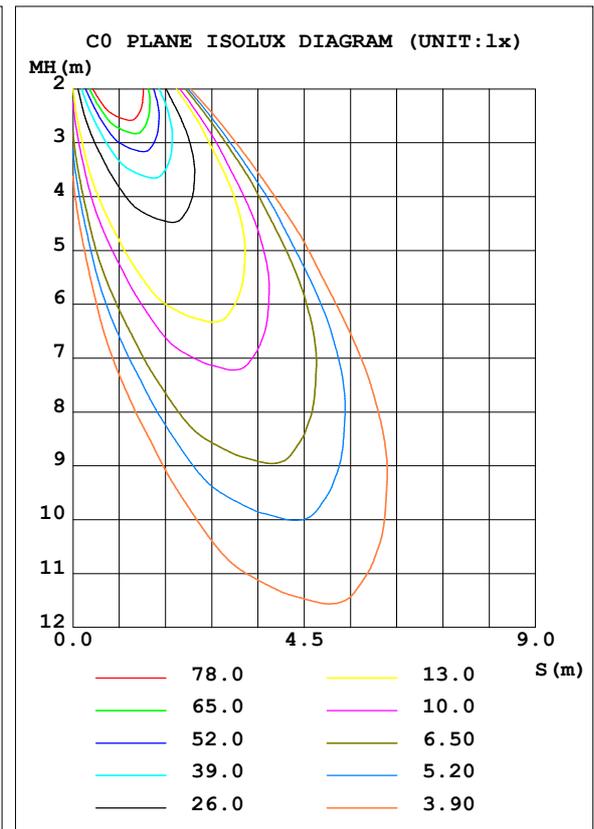
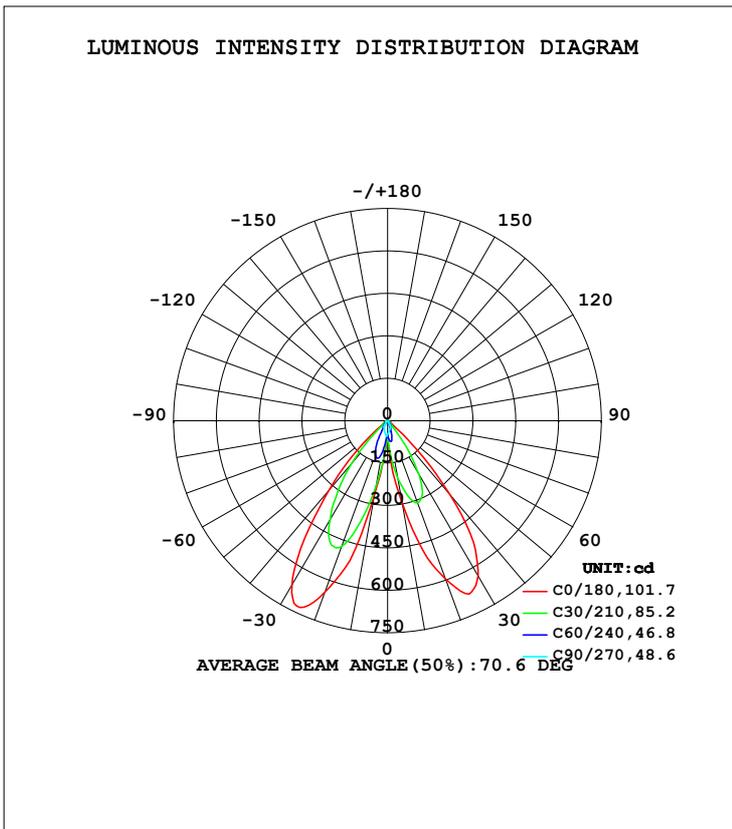


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.12 lm/W			
MODEL	600-036	I _{max} (cd)	728.8	S/MH (C0/180)	1.69
NOMINAL POWER (W)	4	LOR (%)	100.0	S/MH (C90/270)	0.86
RATED VOLTAGE (V)	220-240	TOTAL FLUX (lm)	376.06	η UP, DN (C0-180)	0.0, 40.2
NOMINAL FLUX (lm)	376.063	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 59.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	2.8	η down (%)	100.0	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-11-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.692m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

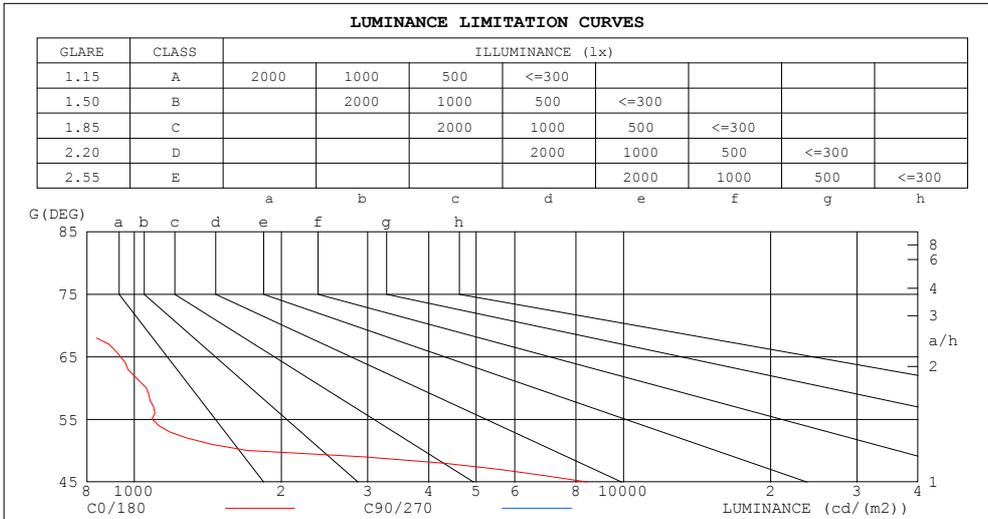
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	291.1	135.4	35.58	120.7	262.1	181.5	48.46	214.7	0- 10	11.14	11.14	2.96,2.96
20	596.0	141.8	28.63	152.5	645.3	285.2	35.99	321.6	10- 20	66.81	77.95	20.7,20.7
30	633.9	37.77	20.94	53.47	671.6	196.4	24.75	246.1	20- 30	126.8	204.7	54.4,54.4
40	335.2	18.85	8.847	17.69	322.8	44.82	14.83	71.88	30- 40	108.9	313.6	83.4,83.4
50	27.78	12.76	4.626	14.03	49.05	17.32	7.050	15.35	40- 50	41.02	354.6	94.3,94.3
60	13.43	5.484	2.827	6.355	13.41	9.208	3.489	9.579	50- 60	10.08	364.7	97,97
70	6.498	2.995	2.469	3.388	7.300	4.650	2.797	4.599	60- 70	6.215	370.9	98.6,98.6
80	2.552	1.644	0.9442	1.890	3.128	2.381	1.745	2.112	70- 80	3.535	374.4	99.6,99.6
90	1.284	0.6571	0.6813	0.7135	1.598	1.066	0.6693	0.8743	80- 90	1.643	376.1	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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	777	291
80	578	208
75	624	268
70	748	276
65	937	243
60	1057	216
55	1087	225
50	1701	275
45	8451	338

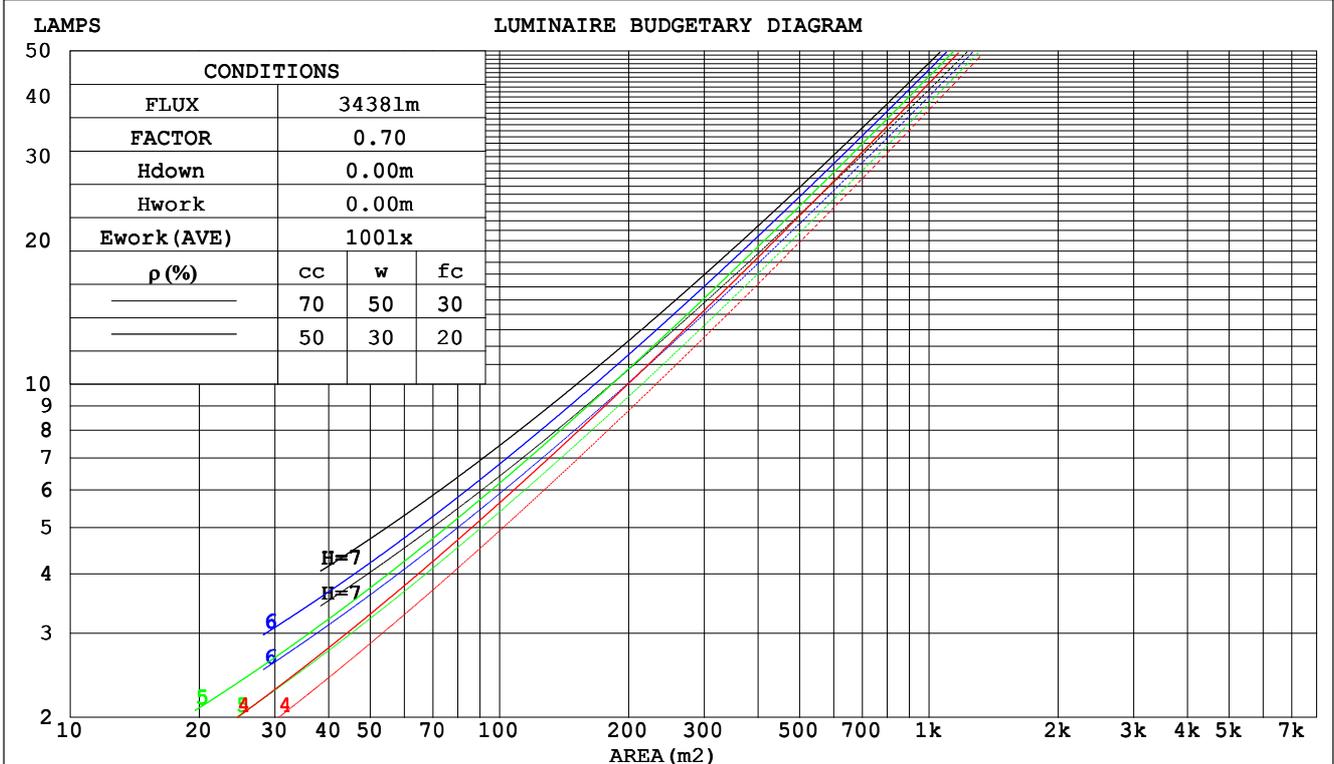
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
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	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91
2.0	.00	.95	.91	.98	.94	.90	.95	.91	.88	.92	.89	.86	.89	.86	.84	.83
3.0	.92	.86	.81	.90	.85	.80	.87	.83	.79	.85	.81	.78	.83	.79	.77	.75
4.0	.84	.78	.73	.83	.77	.72	.81	.75	.71	.79	.74	.70	.77	.73	.70	.68
5.0	.77	.71	.66	.76	.70	.65	.74	.69	.65	.73	.68	.64	.71	.67	.63	.62
6.0	.71	.64	.59	.71	.64	.59	.69	.63	.59	.67	.62	.58	.66	.61	.58	.56
7.0	.66	.59	.54	.65	.59	.54	.64	.58	.54	.63	.57	.53	.61	.57	.53	.51
8.0	.61	.54	.49	.61	.54	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.47
9.0	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.43
10.0	.53	.46	.42	.52	.46	.42	.51	.46	.41	.51	.45	.41	.50	.45	.41	.40



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	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	.210	.119	.038	.203	.116	.037	.190	.109	.035	.178	.103	.033	.168	.097	.031	
2.0	.201	.110	.034	.196	.108	.033	.185	.103	.032	.175	.098	.031	.165	.094	.030	
3.0	.192	.102	.031	.187	.100	.030	.178	.096	.029	.169	.093	.028	.161	.089	.028	
4.0	.183	.095	.028	.178	.093	.028	.170	.090	.027	.162	.087	.026	.155	.084	.026	
5.0	.174	.089	.026	.170	.087	.025	.163	.085	.025	.156	.082	.024	.150	.080	.024	
6.0	.166	.083	.024	.162	.082	.024	.156	.080	.023	.150	.078	.023	.144	.076	.023	
7.0	.158	.078	.022	.155	.077	.022	.149	.075	.022	.144	.074	.021	.139	.072	.021	
8.0	.151	.074	.021	.148	.073	.021	.143	.071	.020	.138	.070	.020	.133	.069	.020	
9.0	.144	.070	.019	.142	.069	.019	.137	.068	.019	.133	.066	.019	.128	.065	.019	
10.0	.138	.066	.018	.136	.065	.018	.131	.064	.018	.127	.063	.018	.124	.062	.018	

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	.173	.157	.142	.148	.135	.122	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.085	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.133	.088	.056	.114	.076	.048	.079	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.115	.066	.033	.099	.058	.029	.068	.040	.021	.040	.024	.012	.013	.008	.004	
9.0	.110	.061	.029	.094	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.105	.057	.025	.091	.050	.022	.063	.035	.016	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	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	16.4	17.6	16.7	17.7	17.9	1.2	2.3	1.4	2.5	2.7
3H	16.4	17.4	16.6	17.6	17.8	2.4	3.4	2.7	3.6	3.9
4H	16.3	17.3	16.6	17.5	17.8	3.0	4.0	3.3	4.2	4.5
6H	16.3	17.2	16.6	17.4	17.7	3.4	4.3	3.7	4.5	4.8
8H	16.2	17.1	16.6	17.4	17.7	3.5	4.4	3.8	4.6	4.9
12H	16.2	17.1	16.6	17.3	17.6	3.6	4.5	4.0	4.7	5.0
4H 2H	16.2	17.1	16.5	17.4	17.6	2.3	3.3	2.6	3.5	3.7
3H	16.1	17.0	16.4	17.2	17.5	3.6	4.5	4.0	4.8	5.1
4H	16.1	16.9	16.4	17.2	17.5	4.4	5.2	4.7	5.5	5.8
6H	16.1	16.7	16.5	17.1	17.4	4.9	5.6	5.3	5.9	6.3
8H	16.1	16.7	16.5	17.0	17.4	5.1	5.7	5.5	6.1	6.4
12H	16.1	16.6	16.5	17.0	17.4	5.2	5.8	5.7	6.2	6.6
8H 4H	16.0	16.6	16.4	16.9	17.3	4.8	5.4	5.2	5.8	6.2
6H	16.0	16.5	16.4	16.9	17.3	5.5	6.1	6.0	6.4	6.9
8H	16.0	16.4	16.4	16.9	17.3	5.8	6.3	6.3	6.7	7.1
12H	16.0	16.4	16.5	16.8	17.3	6.1	6.5	6.6	6.9	7.4
12H 4H	15.9	16.5	16.3	16.9	17.3	4.9	5.5	5.3	5.8	6.2
6H	15.9	16.4	16.4	16.8	17.2	5.7	6.1	6.1	6.6	7.0
8H	16.0	16.3	16.4	16.8	17.2	6.0	6.4	6.5	6.9	7.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 5.7 / - 7.3					+ 0.5 / - 0.5				
1.5H	+ 8.0 / - 8.0					+ 0.8 / - 0.6				
2.0H	+ 9.5 / - 4.0					+ 0.9 / - 1.0				

CIE Pub.117, 376.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.4)
 Area: 0.0259 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:

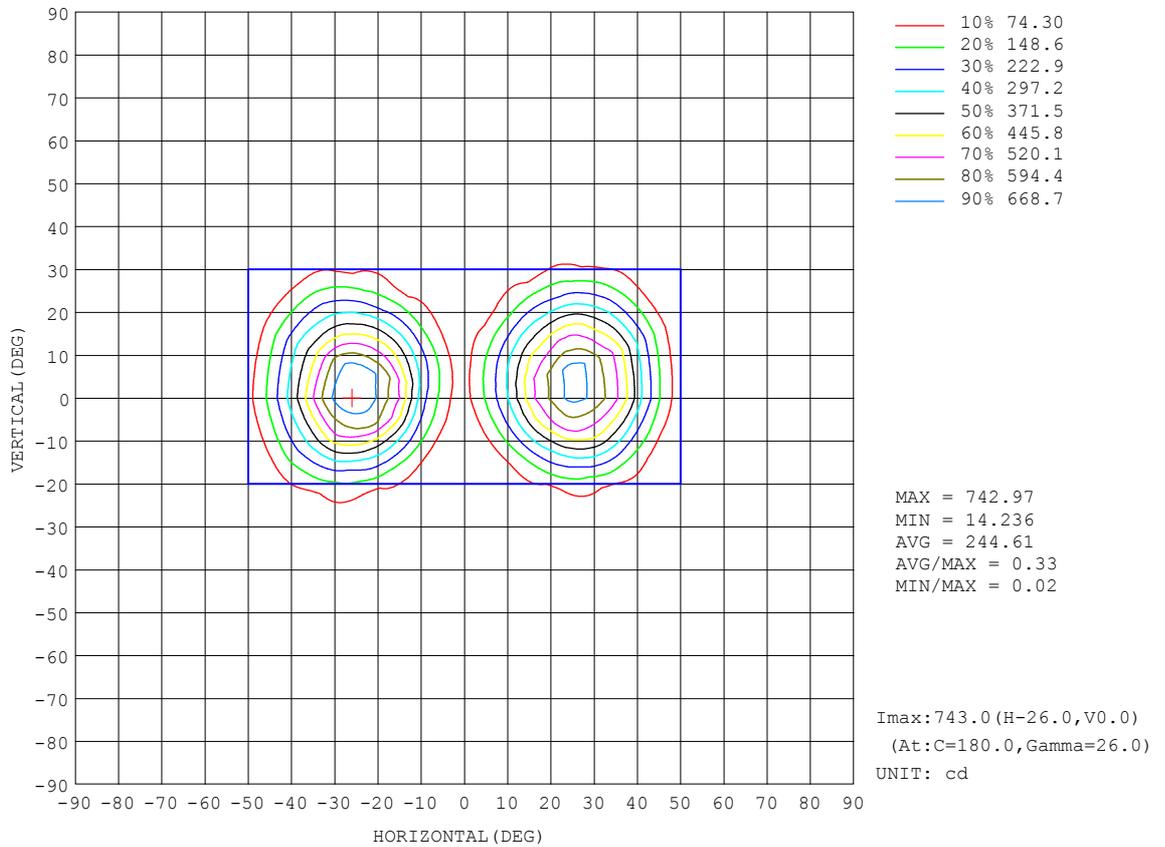
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	81	74	69	81	74	69	80	73	69	65
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	88	84	94	88	84	92	88	83	79
1.25	100	94	89	99	93	89	96	92	88	84
1.50	103	97	93	102	96	93	99	95	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	99	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:

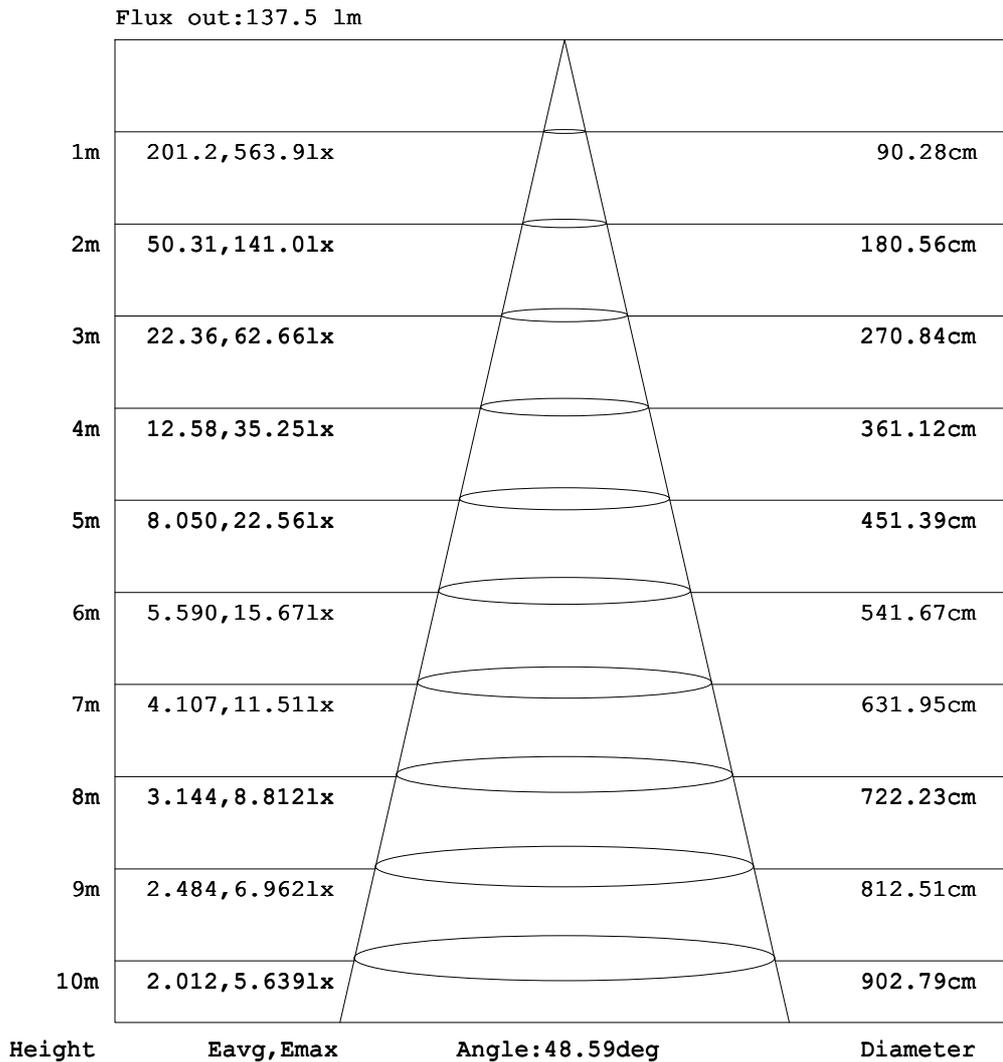


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

AAI Figure

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:



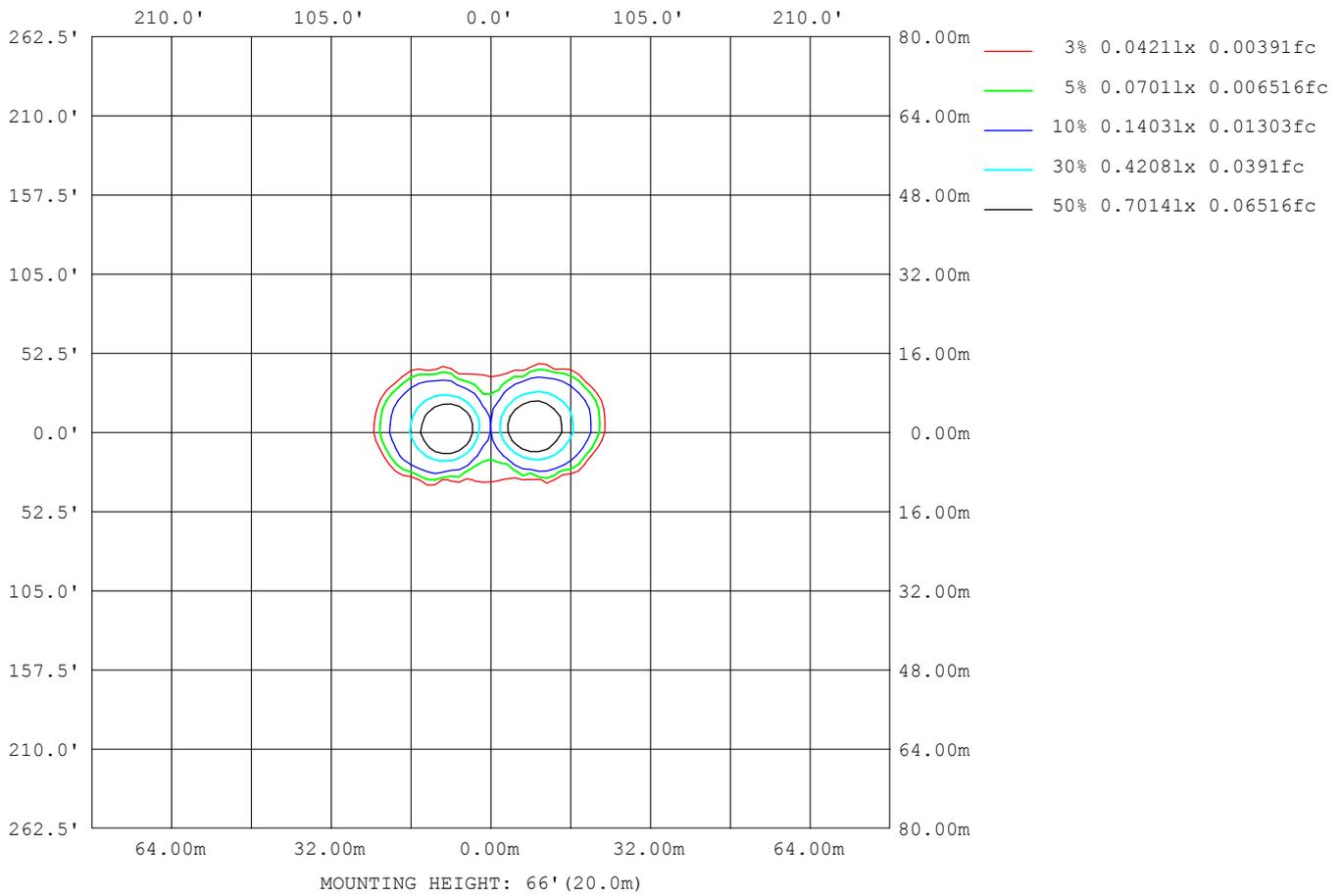
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.692m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:2.8000V I:0.8720A P:2.4400W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:376.063x1 lm		
NAME: 600-036	TYPE: 4W	WEIGHT: 1
SPEC.: 5000K	DIM.: 186*108*63	SERIAL No.:
MFR.:	SUR.: 0.0259	Shielding Angle:

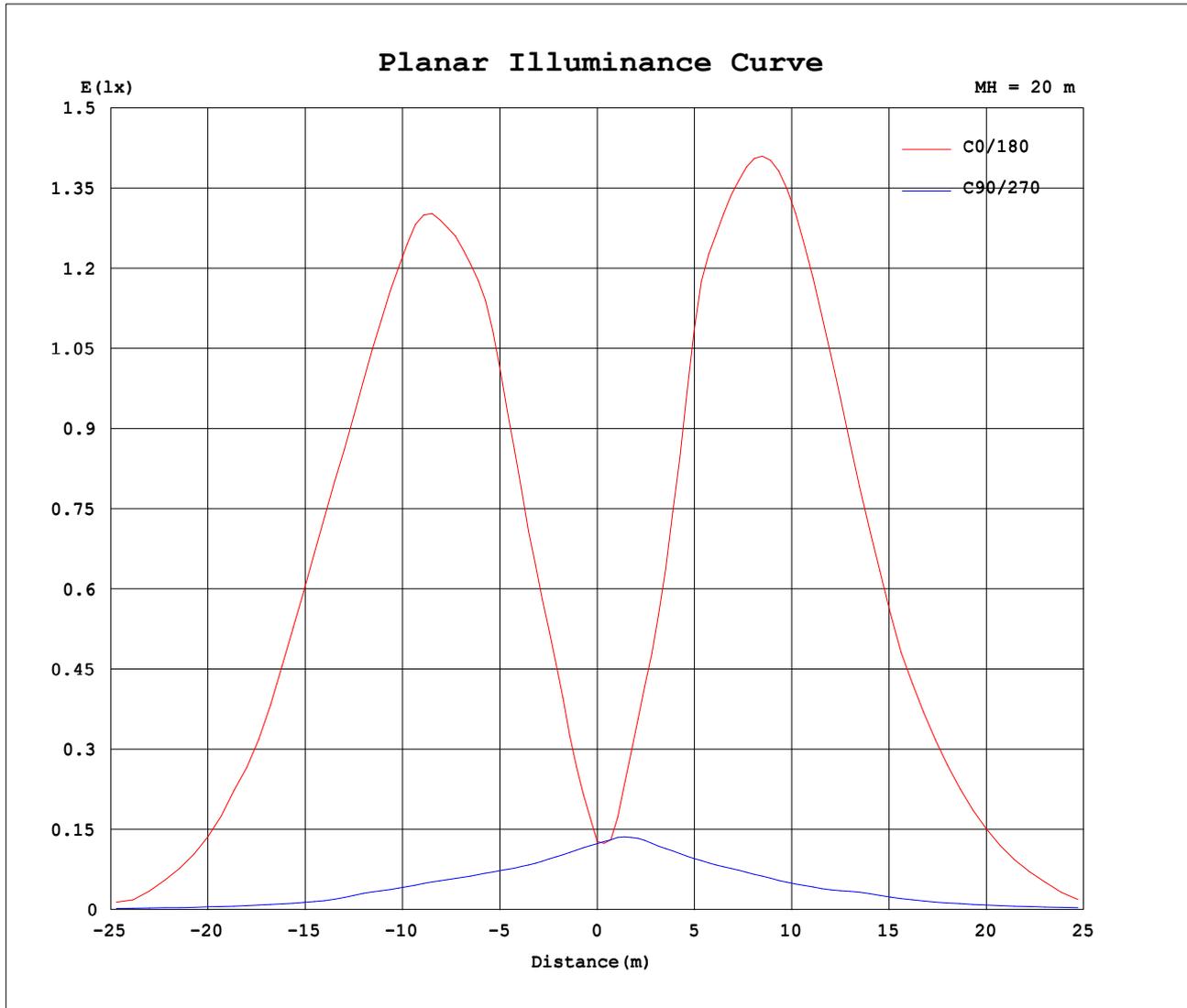
AvgL	cd/m2
L_0~180 (65) av	941
L_0~180 (75) av	655
L_0~180 (85) av	845
L_90~270 (65) av	257
L_90~270 (75) av	323
L_90~270 (85) av	340
L_45 (65) av	496
L_45 (75) av	414
L_45 (85) av	609

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.692m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-11-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.692m [K=1.0000]
 Remarks:

