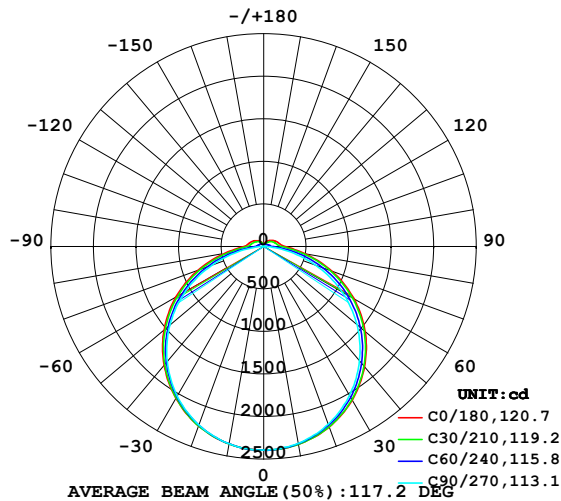


LUMINAIRE PHOTOMETRIC TEST REPORT

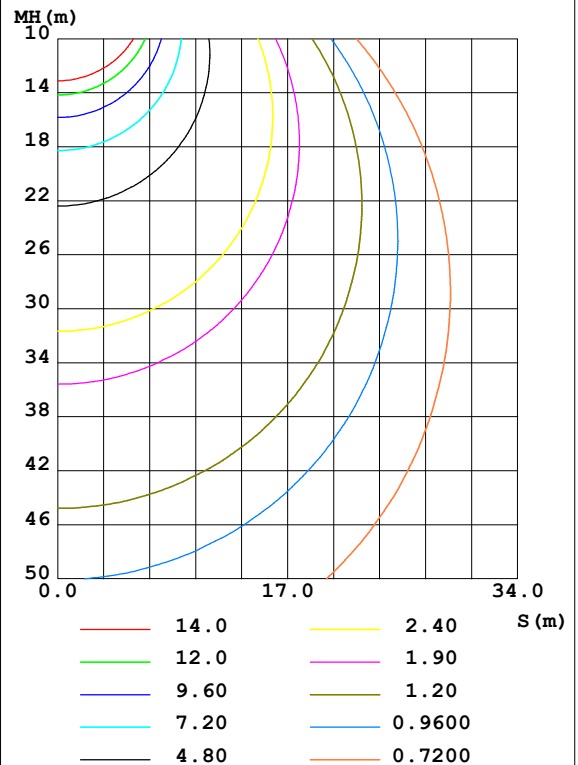
Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.82 lm/W			
MODEL		I _{max} (cd)	2396	S/MH (C0/180)	1.28
NOMINAL POWER(W)	65	LOR(%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	7837.6	η UP,DN(C0-180)	3.1,47.0
NOMINAL FLUX(lm)	7837.63	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.2,46.7
LAMPS INSIDE	1	η up (%)	6.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	231.0	η down (%)	93.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 07 September 2016

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.500m [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	2361	2355	2349	2354	2354	2354	2354	2362	0- 10	226.8	226.8	2.89,2.89
20	2258	2245	2223	2236	2245	2233	2232	2251	10- 20	651.5	878.3	11.2,11.2
30	2085	2063	2022	2045	2064	2047	2032	2065	20- 30	993.7	1872	23.9,23.9
40	1847	1816	1750	1793	1823	1794	1765	1819	30- 40	1211	3083	39.3,39.3
50	1558	1517	1433	1490	1530	1487	1441	1514	40- 50	1277	4360	55.6,55.6
60	1224	1173	1061	1142	1195	1135	1064	1165	50- 60	1186	5545	70.8,70.8
70	855.9	794.2	654.7	761.0	825.1	749.0	650.6	781.1	60- 70	945.8	6491	82.8,82.8
80	489.0	414.6	247.9	382.6	464.1	372.0	236.3	398.2	70- 80	597.2	7088	90.4,90.4
90	253.8	167.4	3.233	150.1	235.5	151.3	5.220	163.0	80- 90	260.2	7349	93.8,93.8
100	192.5	122.4	4.859	113.0	185.5	118.6	7.351	123.2	90-100	132.9	7481	95.5,95.5
110	165.7	104.2	7.039	94.43	159.8	99.97	9.905	99.84	100-110	106.7	7588	96.8,96.8
120	140.0	73.06	9.316	78.75	134.4	83.86	12.39	80.57	110-120	84.77	7673	97.9,97.9
130	114.7	57.48	11.75	65.13	109.6	69.53	14.95	62.98	120-130	63.67	7737	98.7,98.7
140	91.03	44.99	14.54	52.60	85.91	56.13	17.35	50.07	130-140	44.77	7781	99.3,99.3
150	68.57	36.96	17.35	40.95	63.48	43.21	19.44	41.04	140-150	29.28	7811	99.7,99.7
160	48.03	32.31	19.72	30.48	41.33	31.49	20.99	34.01	150-160	16.83	7827	99.9,99.9
170	30.66	25.84	21.22	23.04	25.71	23.20	21.77	26.34	160-170	7.965	7835	100,100
180	21.74	21.79	21.98	22.03	21.78	21.78	21.99	22.03	170-180	2.200	7838	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3722.7 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(120deg): 5545.3 lm

%lum = 70.8%

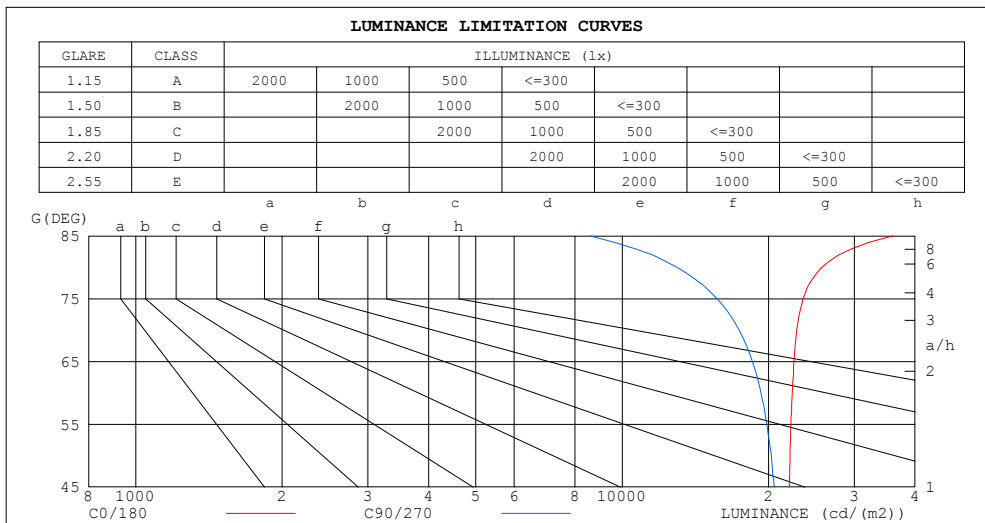
%lamp = 70.8%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:07 September 2016

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	36038	8596
80	25726	12971
75	23553	15668
70	22861	17395
65	22556	18524
60	22370	19285
55	22243	19837
50	22142	20263
45	22083	20546

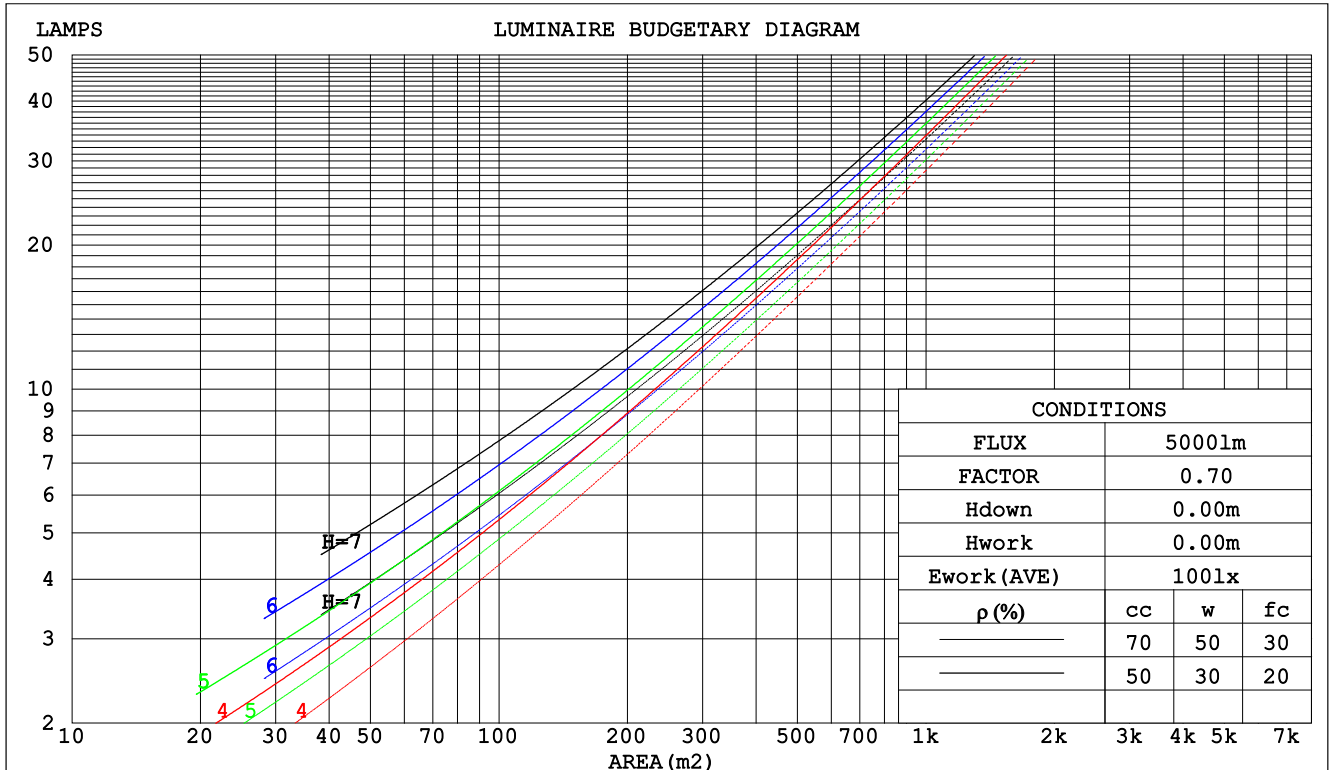
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:07 September 2016

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.01	.97	.93	.98	.94	.91	.93	.90	.86	.88	.85	.83	.83	.81	.79	.77
2.0	.88	.81	.75	.85	.79	.73	.81	.75	.71	.76	.72	.68	.73	.69	.66	.63
3.0	.77	.68	.62	.75	.67	.61	.71	.64	.59	.67	.62	.57	.64	.59	.55	.53
4.0	.68	.59	.52	.66	.58	.51	.63	.55	.50	.60	.53	.48	.57	.51	.47	.45
5.0	.60	.51	.44	.59	.50	.44	.56	.49	.43	.53	.47	.42	.51	.45	.41	.38
6.0	.54	.45	.39	.53	.44	.38	.50	.43	.37	.48	.42	.37	.46	.40	.36	.33
7.0	.49	.40	.34	.48	.40	.34	.46	.38	.33	.44	.37	.32	.42	.36	.32	.29
8.0	.45	.36	.30	.44	.36	.30	.42	.35	.29	.40	.34	.29	.39	.33	.28	.26
9.0	.41	.33	.27	.40	.32	.27	.38	.31	.26	.37	.31	.26	.36	.30	.25	.24
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:07 September 2016

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.330	.188	.059	.321	.183	.058	.304	.174	.056	.288	.166	.053	.274	.159	.051		
2.0	.303	.166	.051	.295	.162	.050	.280	.156	.048	.266	.149	.047	.253	.143	.045		
3.0	.277	.147	.044	.270	.145	.044	.256	.139	.042	.244	.134	.041	.232	.129	.040		
4.0	.254	.132	.039	.248	.130	.038	.235	.125	.037	.224	.120	.036	.214	.116	.035		
5.0	.234	.119	.034	.228	.117	.034	.217	.113	.033	.207	.109	.032	.197	.105	.032		
6.0	.216	.108	.031	.211	.106	.031	.201	.103	.030	.192	.100	.029	.183	.096	.029		
7.0	.200	.099	.028	.196	.098	.028	.187	.094	.027	.179	.092	.027	.171	.089	.026		
8.0	.187	.091	.026	.183	.090	.025	.175	.087	.025	.167	.085	.024	.160	.082	.024		
9.0	.175	.085	.024	.171	.083	.023	.164	.081	.023	.157	.079	.022	.150	.076	.022		
10.0	.164	.079	.022	.161	.078	.022	.154	.075	.021	.148	.073	.021	.142	.071	.020		

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	.238	.238	.238	.203	.203	.203	.139	.139	.139	.080	.080	.080	.026	.026	.026	
1.0	.230	.204	.181	.196	.175	.156	.134	.120	.108	.077	.070	.063	.025	.022	.020	
2.0	.222	.180	.145	.190	.155	.125	.130	.107	.087	.075	.062	.051	.024	.020	.017	
3.0	.214	.163	.122	.184	.140	.106	.126	.098	.074	.073	.057	.044	.023	.019	.014	
4.0	.207	.150	.106	.177	.129	.092	.122	.090	.065	.071	.053	.038	.023	.017	.013	
5.0	.199	.140	.096	.171	.121	.083	.118	.084	.059	.068	.050	.035	.022	.016	.011	
6.0	.192	.131	.088	.165	.114	.077	.114	.080	.054	.066	.047	.032	.021	.015	.011	
7.0	.185	.125	.082	.159	.108	.072	.110	.076	.051	.064	.045	.030	.021	.015	.010	
8.0	.179	.119	.078	.154	.103	.068	.106	.072	.048	.062	.043	.029	.020	.014	.009	
9.0	.173	.114	.074	.149	.099	.065	.103	.070	.046	.060	.041	.028	.019	.013	.009	
10.0	.167	.110	.072	.144	.095	.063	.100	.067	.045	.058	.040	.027	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:07 September 2016

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm											
NAME: TP-M2-065-NW						TYPE:					
SPEC.:						DIM.:			SERIAL No.:		
MFR.: ERVAN						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		16.3	17.8	16.7	18.1	18.4	15.7	17.2	16.1	17.5	17.9
	3H	18.2	19.5	18.6	19.9	20.2	17.3	18.6	17.6	18.9	19.3
	4H	19.0	20.3	19.4	20.7	21.1	17.8	19.1	18.2	19.5	19.9
	6H	19.8	21.0	20.2	21.4	21.8	18.2	19.4	18.6	19.8	20.2
	8H	20.2	21.4	20.6	21.8	22.2	18.3	19.4	18.7	19.8	20.3
	12H	20.6	21.7	21.0	22.1	22.5	18.3	19.4	18.7	19.8	20.3
4H	2H	16.9	18.2	17.3	18.6	19.0	16.5	17.8	16.9	18.1	18.5
	3H	19.0	20.1	19.4	20.5	21.0	18.2	19.3	18.6	19.7	20.2
	4H	20.0	21.0	20.5	21.5	21.9	18.9	19.9	19.4	20.4	20.8
	6H	20.9	21.9	21.4	22.3	22.8	19.4	20.3	19.9	20.8	21.3
	8H	21.4	22.3	21.9	22.7	23.3	19.5	20.4	20.0	20.9	21.4
	12H	21.9	22.7	22.4	23.2	23.7	19.6	20.4	20.1	20.9	21.4
8H	4H	20.3	21.1	20.8	21.6	22.1	19.3	20.2	19.8	20.7	21.2
	6H	21.4	22.1	22.0	22.7	23.2	20.0	20.7	20.6	21.3	21.8
	8H	22.0	22.7	22.6	23.2	23.8	20.3	20.9	20.8	21.4	22.0
	12H	22.7	23.3	23.3	23.8	24.4	20.4	21.0	21.0	21.5	22.1
12H	4H	20.3	21.1	20.8	21.6	22.1	19.4	20.2	19.9	20.7	21.2
	6H	21.5	22.1	22.1	22.7	23.3	20.2	20.8	20.7	21.4	21.9
	8H	22.2	22.7	22.8	23.3	23.9	20.5	21.1	21.1	21.6	22.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117, 7838 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.2$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:07 September 2016

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

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	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	50	44	36
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	61	78	67	60	74	65	59	51
1.50	84	74	66	82	73	66	79	70	64	56
2.00	91	82	75	89	81	74	85	78	72	63
2.50	96	87	80	93	85	79	88	82	77	67
3.00	99	91	85	96	90	84	91	86	81	71
4.00	103	97	92	100	95	90	95	90	87	76
5.00	106	100	96	103	98	94	97	93	90	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNM = 1.25		

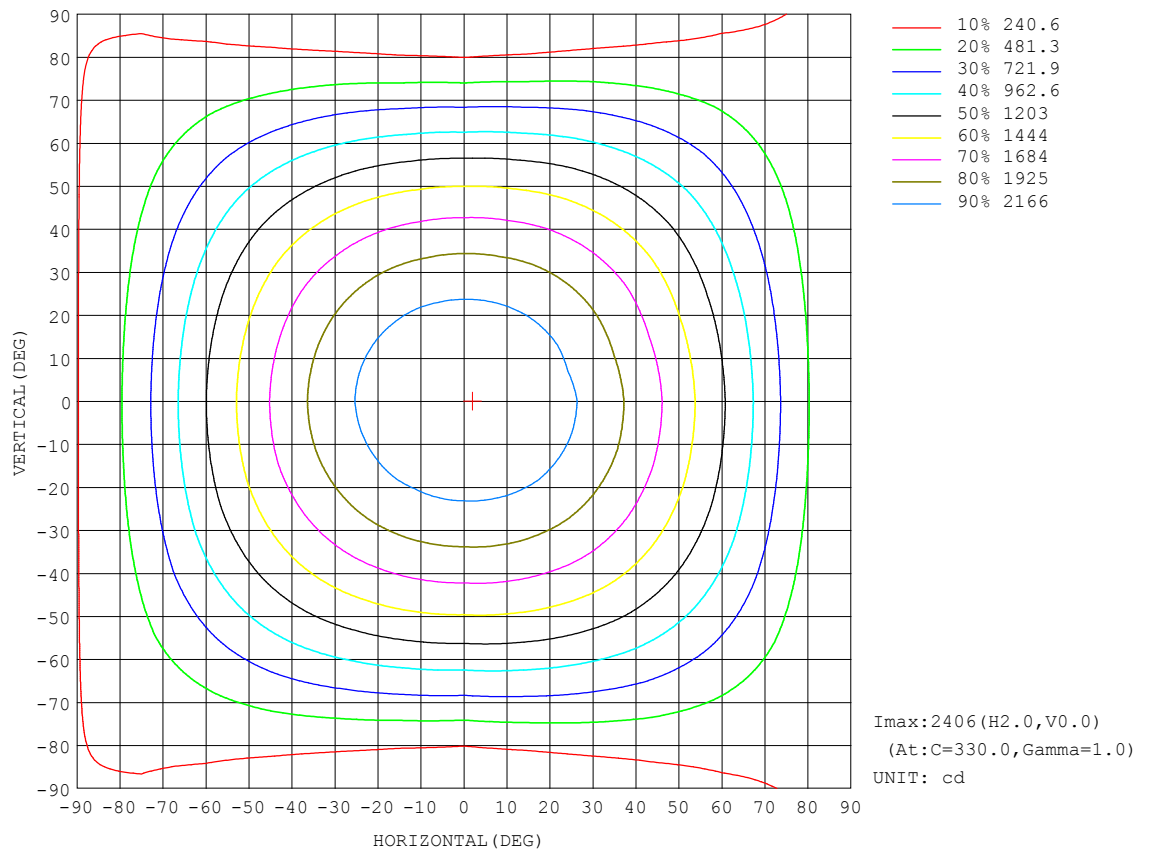
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

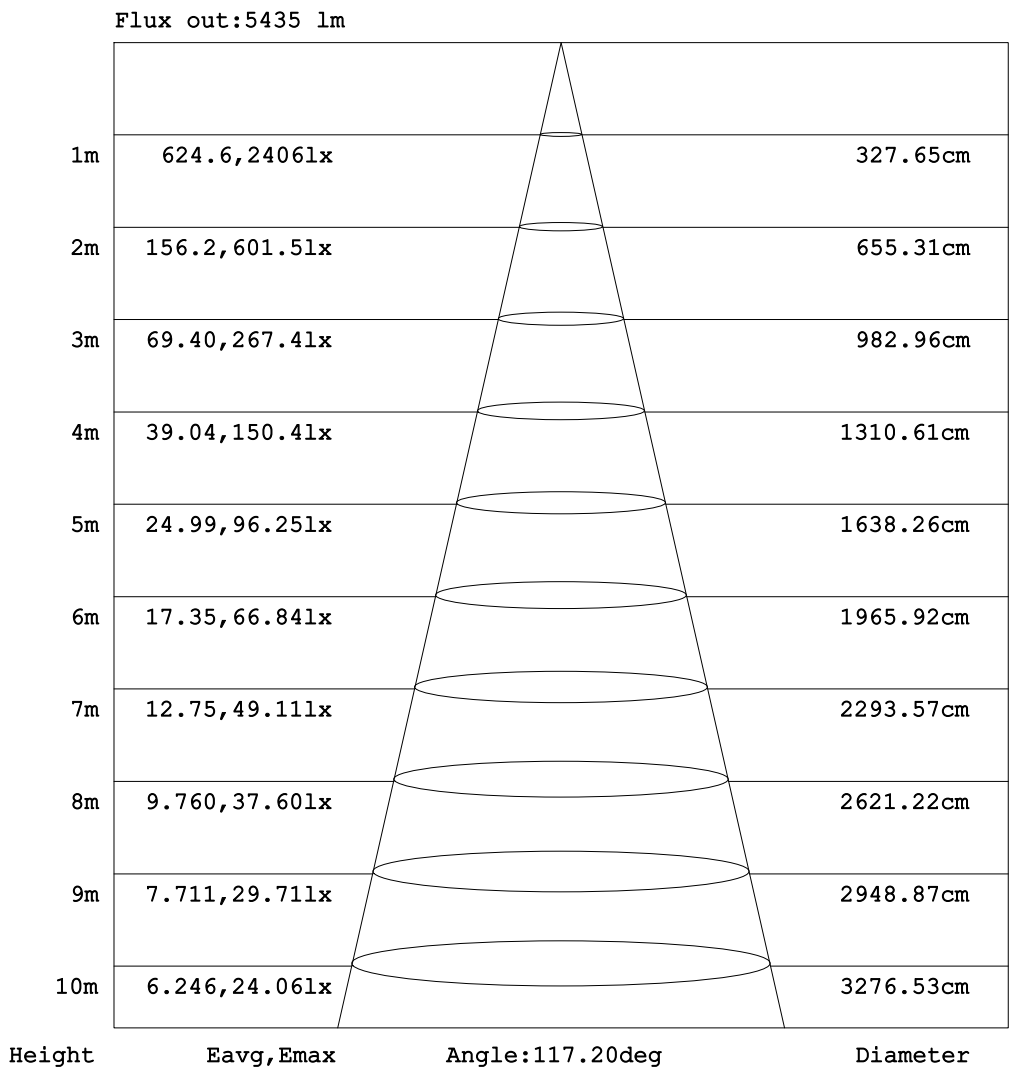


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 07 September 2016

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



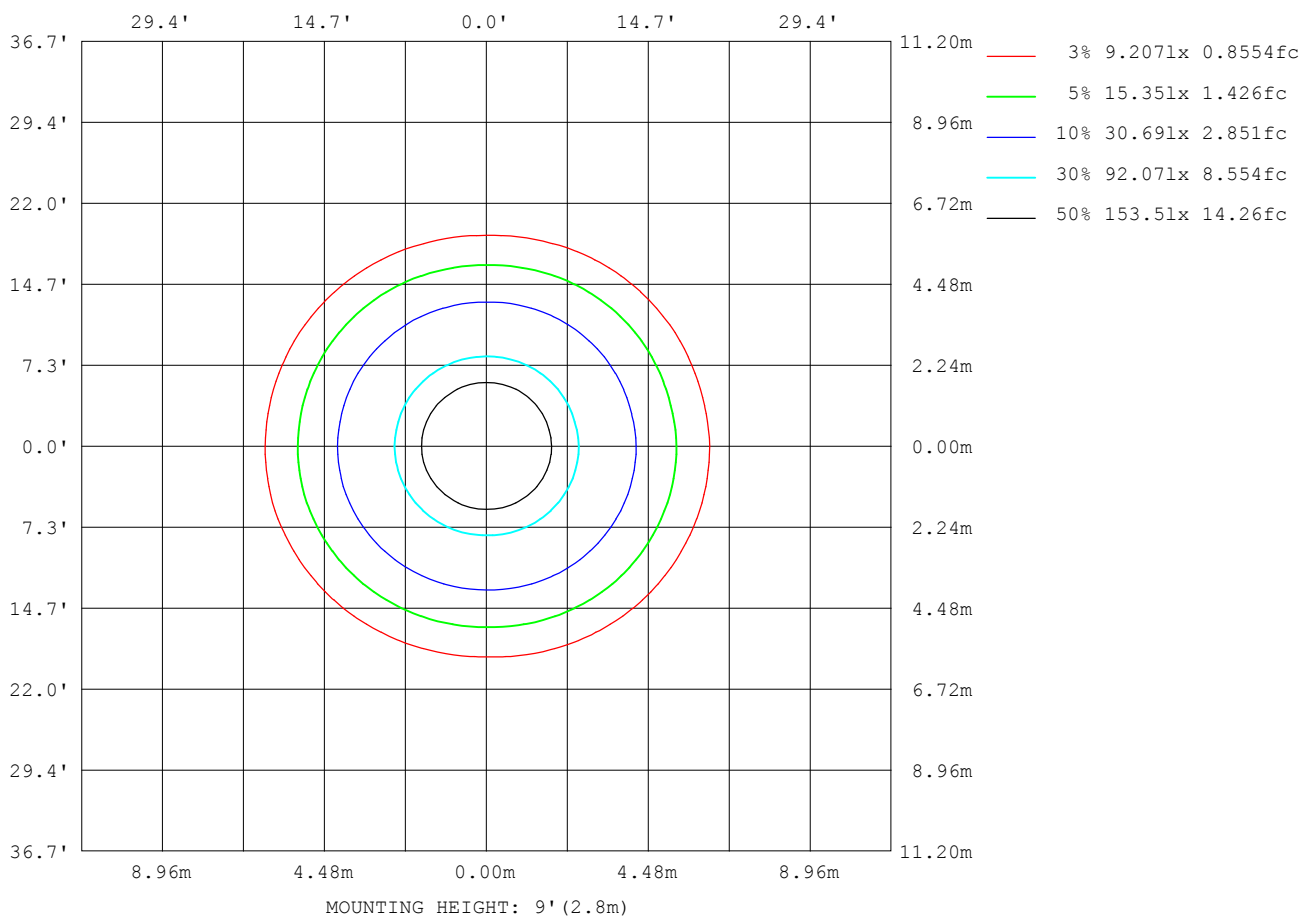
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 07 September 2016

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 07 September 2016

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

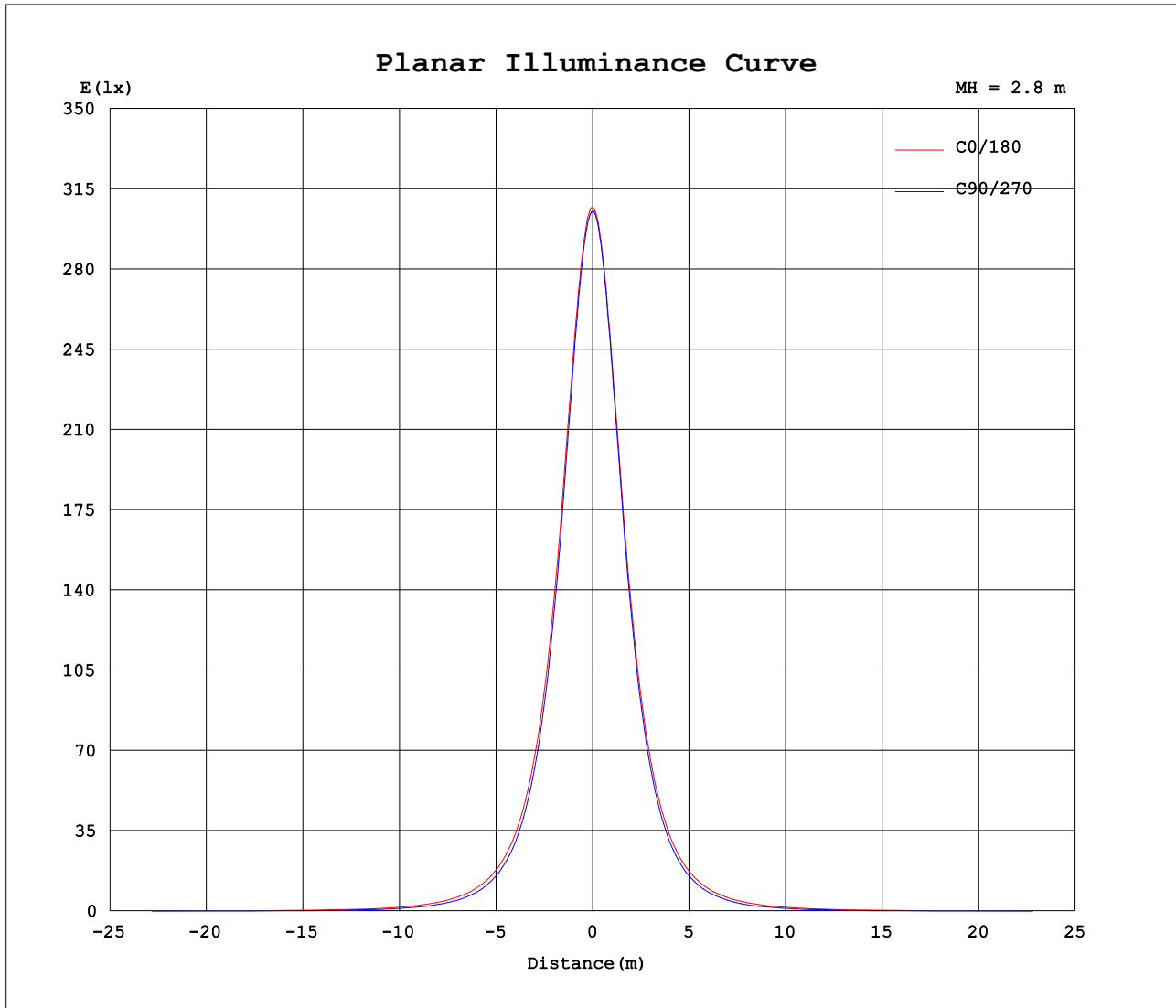
AvgL	cd/m2
L_0~180 (65) av	22115
L_0~180 (75) av	22926
L_0~180 (85) av	34700
L_90~270 (65) av	18528
L_90~270 (75) av	15537
L_90~270 (85) av	8129
L_45 (65) av	20761
L_45 (75) av	20243
L_45 (85) av	25259

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:07 September 2016

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 07 September 2016

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm																		
NAME: TP-M2-065-NW									TYPE:									
SPEC.:									DIM.:					SERIAL No.:				
MFR.: ERVAN									SUR.:					Shielding Angle:				

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395	2395
5	2387	2386	2388	2385	2383	2384	2381	2378	2386	2385	2387	2386	2384	2384	2386	2383	2386	2384	2385
10	2361	2363	2361	2355	2354	2350	2349	2347	2350	2354	2355	2360	2354	2357	2356	2354	2354	2353	2354
15	2318	2319	2317	2308	2303	2298	2295	2294	2297	2305	2308	2312	2309	2308	2310	2305	2305	2299	2303
20	2258	2256	2254	2245	2235	2229	2223	2223	2229	2236	2245	2246	2245	2243	2244	2233	2235	2229	2232
25	2179	2178	2171	2163	2149	2138	2130	2133	2138	2149	2160	2168	2162	2161	2158	2151	2144	2140	2142
30	2085	2082	2075	2063	2045	2031	2022	2023	2031	2045	2058	2070	2064	2059	2058	2047	2042	2033	2032
35	1971	1970	1962	1946	1926	1908	1895	1899	1911	1927	1943	1956	1950	1945	1941	1928	1919	1906	1907
40	1847	1845	1835	1816	1790	1769	1750	1759	1772	1793	1814	1830	1823	1816	1811	1794	1784	1767	1765
45	1709	1706	1694	1672	1644	1618	1599	1607	1621	1647	1671	1692	1682	1674	1666	1645	1630	1614	1611
50	1558	1556	1541	1517	1484	1453	1433	1441	1461	1490	1517	1538	1530	1522	1510	1487	1467	1445	1441
55	1397	1393	1376	1349	1313	1278	1252	1264	1288	1321	1351	1375	1367	1356	1343	1315	1292	1267	1258
60	1224	1222	1202	1173	1131	1091	1061	1075	1104	1142	1175	1203	1195	1183	1166	1135	1106	1074	1064
65	1043	1041	1019	987	940	896	862	878	911	953	989	1019	1013	999	981	945	911	875	861
70	856	854	830	794	743	693	655	676	714	761	801	833	825	810	789	749	711	668	651
75	667	665	639	600	545	490	446	471	516	567	610	645	638	622	597	554	510	461	438
80	489	485	457	415	356	295	248	277	328	383	431	468	464	447	419	372	321	267	236
85	344	336	306	258	197	132	82.4	116	176	235	286	321	322	309	277	229	171	109	73.4
90	254	244	215	167	108	45.0	3.23	36.8	93.9	150	198	230	236	225	196	151	98.2	41.2	5.22
95	212	202	175	135	84.9	33.4	3.88	27.6	76.3	124	163	190	200	192	167	129	82.7	33.3	6.21
100	193	184	160	122	76.5	29.7	4.86	23.8	67.9	113	150	175	185	177	155	119	74.5	29.4	7.35
105	179	171	148	113	66.2	27.2	5.94	21.8	61.2	103	138	162	172	165	143	109	67.6	27.4	8.61
110	166	159	137	104	58.7	25.6	7.04	20.7	55.8	94.4	127	150	160	153	132	100.0	62.1	26.1	9.91
115	153	146	126	91.7	50.8	23.1	8.18	20.0	51.3	86.3	117	137	147	140	121	91.6	57.3	25.1	11.2
120	140	134	116	73.1	46.5	21.7	9.32	19.5	47.3	78.7	106	125	134	128	111	83.9	53.1	24.4	12.4
125	127	122	106	62.9	41.1	20.9	10.5	19.2	43.7	71.8	96.5	114	122	116	100	76.6	49.2	23.9	13.7
130	115	110	88.4	57.5	37.5	20.5	11.7	19.0	40.4	65.1	86.9	102	110	105	90.5	69.5	45.6	23.5	15.0
135	103	99.0	70.6	50.9	34.3	20.4	13.1	18.9	37.3	58.8	77.7	90.9	97.6	93.0	80.9	62.7	42.3	23.1	16.2
140	91.0	88.0	60.0	45.0	31.8	21.0	14.5	19.0	34.4	52.6	68.8	80.1	85.9	81.8	71.5	56.1	38.4	22.6	17.3
145	79.7	77.4	52.7	39.9	31.2	21.7	16.0	19.1	31.5	46.7	60.2	69.5	74.4	70.9	62.4	49.5	34.5	22.2	18.4
150	68.6	59.7	47.2	37.0	30.3	22.2	17.3	19.3	28.8	41.0	51.8	59.2	63.5	60.5	53.6	43.2	31.2	21.8	19.4
155	58.0	45.8	40.4	35.0	29.0	22.6	18.6	19.7	26.3	35.5	43.8	49.5	51.4	50.5	45.1	37.1	28.1	21.6	20.3
160	48.0	37.2	34.5	32.3	27.4	22.7	19.7	20.2	24.2	30.5	36.4	40.5	41.3	41.0	37.1	31.5	25.3	21.5	21.0
165	38.7	30.6	30.3	29.2	25.6	22.6	20.6	20.7	22.6	26.2	29.8	32.3	32.6	32.4	30.0	26.7	23.1	21.5	21.5
170	30.7	26.5	26.7	25.8	23.8	22.3	21.2	21.0	21.8	23.0	24.6	25.8	25.7	25.7	24.5	23.2	21.8	21.5	21.8
175	24.2	22.7	23.2	23.1	22.3	22.1	21.6	21.4	21.5	21.7	22.0	21.9	22.0	21.9	21.8	21.8	21.4	21.6	21.9
180	21.7	21.5	21.6	21.8	21.7	22.0	22.0	22.1	22.1	22.0	21.9	21.7	21.8	21.6	21.6	21.8	21.7	22.0	22.0

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:QC

Test Date:07 September 2016

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:10.500m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.1V I:0.2870A P:64.34W PF:0.9701 Freq:50.00Hz Lamp Flux:7837.63x1 lm		
NAME: TP-M2-065-NW	TYPE:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2395	2395	2395	2395	2395														
5	2384	2387	2389	2391	2385														
10	2355	2360	2362	2364	2361														
15	2304	2311	2316	2318	2315														
20	2234	2244	2251	2255	2252														
25	2147	2158	2166	2176	2171														
30	2040	2055	2065	2076	2074														
35	1914	1936	1948	1963	1962														
40	1776	1801	1819	1834	1835														
45	1622	1652	1672	1692	1691														
50	1457	1490	1514	1535	1542														
55	1278	1316	1344	1370	1380														
60	1087	1131	1165	1194	1205														
65	887	936	975	1008	1022														
70	681	736	781	817	832														
75	473	535	584	624	642														
80	277	342	398	443	466														
85	116	185	247	295	325														
90	40.1	104	163	211	241														
95	32.0	84.2	135	176	203														
100	29.0	72.0	123	161	185														
105	27.5	66.0	108	150	173														
110	26.4	63.4	99.8	134	160														
115	25.0	55.1	89.8	122	148														
120	24.2	50.1	80.6	113	131														
125	23.8	45.5	70.3	103	119														
130	23.6	41.7	63.0	87.3	107														
135	23.5	38.6	56.1	74.3	96.8														
140	23.8	36.0	50.1	64.8	86.1														
145	24.0	34.5	44.6	58.1	75.0														
150	24.1	32.9	41.0	50.9	59.7														
155	23.9	31.0	37.7	43.6	48.5														
160	23.7	28.9	34.0	37.1	39.8														
165	23.3	26.7	30.1	32.1	32.8														
170	22.8	24.6	26.3	27.6	27.7														
175	22.5	23.0	23.5	23.9	23.5														
180	22.1	22.1	22.0	21.9	21.7														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:07 September 2016

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.500m [K=1.0000]
Remarks: