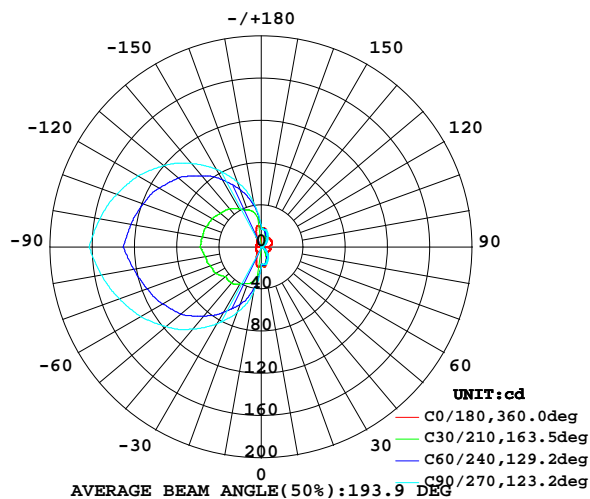


## LUMINAIRE PHOTOMETRIC TEST REPORT

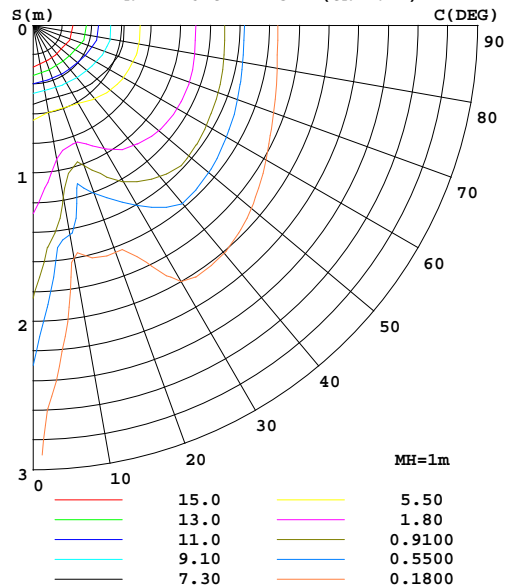
NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.82 lm/W
MODEL	SAMSUNG	Imax(cd)	163.3	S/MH(C0/180)	0.98	
NOMINAL POWER(W)	7.2	LOR(%)	67.8	S/MH(C90/270)	1.14	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	488.36	h UP,DN(C0-180)	1.9,2.0	
NOMINAL FLUX(lm)	720	CIE CLASS	DIFFUSE	h UP,DN(C180-360)	32.4,31.5	
LAMPS INSIDE	1	h up(%)	34.4	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	120.4	h down(%)	33.5	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:LZM  
 Test Date:2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity:65.0%  
 Test Distance:6.172m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	18.27	17.53	16.67	17.60	18.45	26.82	29.79	26.67	0- 5	0.4766	0.4766	0.10,0.07
10	19.29	17.72	16.88	17.88	19.54	35.98	43.12	35.64	5- 10	1.737	2.213	0.45,0.31
15	17.32	16.09	17.08	16.10	18.31	42.95	56.44	42.24	10- 15	3.275	5.488	1.12,0.76
20	14.60	13.91	15.52	13.81	15.37	48.17	65.65	46.25	15- 20	4.835	10.32	2.11,1.43
25	11.85	12.29	13.96	12.24	12.19	52.59	74.86	50.33	20- 25	6.343	16.67	3.41,2.31
30	9.754	10.70	12.40	10.75	9.217	57.38	84.07	55.92	25- 30	7.942	24.61	5.04,3.42
35	8.732	9.189	10.59	9.446	7.864	62.48	92.95	61.36	30- 35	9.663	34.27	7.02,4.76
40	8.239	7.854	8.789	8.342	6.871	67.16	101.8	66.04	35- 40	11.42	45.69	9.36,6.35
45	7.936	6.380	6.985	6.897	6.097	70.92	110.7	69.77	40- 45	13.13	58.82	12,8.17
50	7.666	5.179	4.915	5.688	6.431	74.39	117.9	73.60	45- 50	14.83	73.65	15.1,10.2
55	7.703	4.227	2.845	4.689	6.336	78.21	125.0	77.46	50- 55	16.43	90.08	18.4,12.5
60	8.210	2.749	0.7753	3.117	6.646	79.83	132.2	79.36	55- 60	17.90	108.0	22.1,15
65	8.552	1.467	0.7423	1.716	6.566	82.14	137.8	81.57	60- 65	19.28	127.3	26.1,17.7
70	8.736	0.8138	0.7093	0.9856	6.355	84.11	143.4	83.43	65- 70	20.58	147.8	30.3,20.5
75	8.947	0.7764	0.6762	0.9304	6.093	84.75	149.0	84.88	70- 75	21.78	169.6	34.7,23.6
80	8.244	0.7385	0.6663	0.8784	5.512	86.14	153.8	86.85	75- 80	22.87	192.5	39.4,26.7
85	3.405	0.7046	0.6564	0.8686	2.857	89.28	158.5	88.50	80- 85	23.79	216.3	44.3,30
90	0.1635	0.6688	0.6465	0.8545	0.0695	93.46	163.3	91.07	85- 90	24.59	240.9	49.3,33.5
95	4.263	0.6711	0.6341	0.8298	2.199	91.52	159.3	89.44	90- 95	24.74	265.6	54.4,36.9
100	9.006	0.6734	0.6217	0.8058	4.992	90.59	155.4	88.71	95-100	24.19	289.8	59.3,40.3
105	10.03	0.6628	0.6093	0.8329	5.424	89.17	151.5	87.10	100-105	23.45	313.3	64.1,43.5
110	10.61	0.6531	0.6118	0.8652	5.667	88.26	146.0	85.92	105-110	22.44	335.7	68.7,46.6
115	11.00	1.150	0.6143	1.593	5.697	86.44	140.6	84.22	110-115	21.28	357.0	73.1,49.6
120	11.27	2.197	0.6168	3.007	5.632	83.89	135.1	82.12	115-120	20.00	377.0	77.2,52.4
125	11.38	3.452	2.592	4.599	5.583	81.70	127.7	80.28	120-125	18.63	395.6	81,54.9
130	11.38	4.221	4.568	5.934	5.559	77.67	120.4	76.45	125-130	17.13	412.7	84.5,57.3
135	11.31	5.283	6.544	7.427	5.767	73.58	113.0	72.52	130-135	15.44	428.2	87.7,59.5
140	11.34	6.673	8.413	9.077	6.858	69.58	103.8	68.52	135-140	13.61	441.8	90.5,61.4
145	11.37	7.585	10.28	10.17	8.000	64.61	94.55	63.84	140-145	11.75	453.5	92.9,63
150	11.66	8.696	12.15	11.57	9.393	59.15	85.33	58.78	145-150	9.910	463.4	94.9,64.4
155	12.67	10.18	13.78	13.24	12.26	53.61	75.36	53.44	150-155	8.107	471.6	96.6,65.5
160	14.83	12.12	15.41	15.34	15.96	48.35	65.38	47.92	155-160	6.432	478.0	97.9,66.4
165	17.26	14.76	17.04	17.46	19.45	43.29	55.40	42.16	160-165	4.862	482.8	98.9,67.1
170	18.46	16.82	17.07	18.19	20.86	36.12	42.83	35.48	165-170	3.278	486.1	99.5,67.5
175	18.81	17.99	17.10	17.69	19.09	27.16	30.25	27.42	170-175	1.747	487.9	99.9,67.8
180	17.13	17.13	17.13	17.13	17.68	17.68	17.68	17.68	175-180	0.4906	488.4	100,67.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

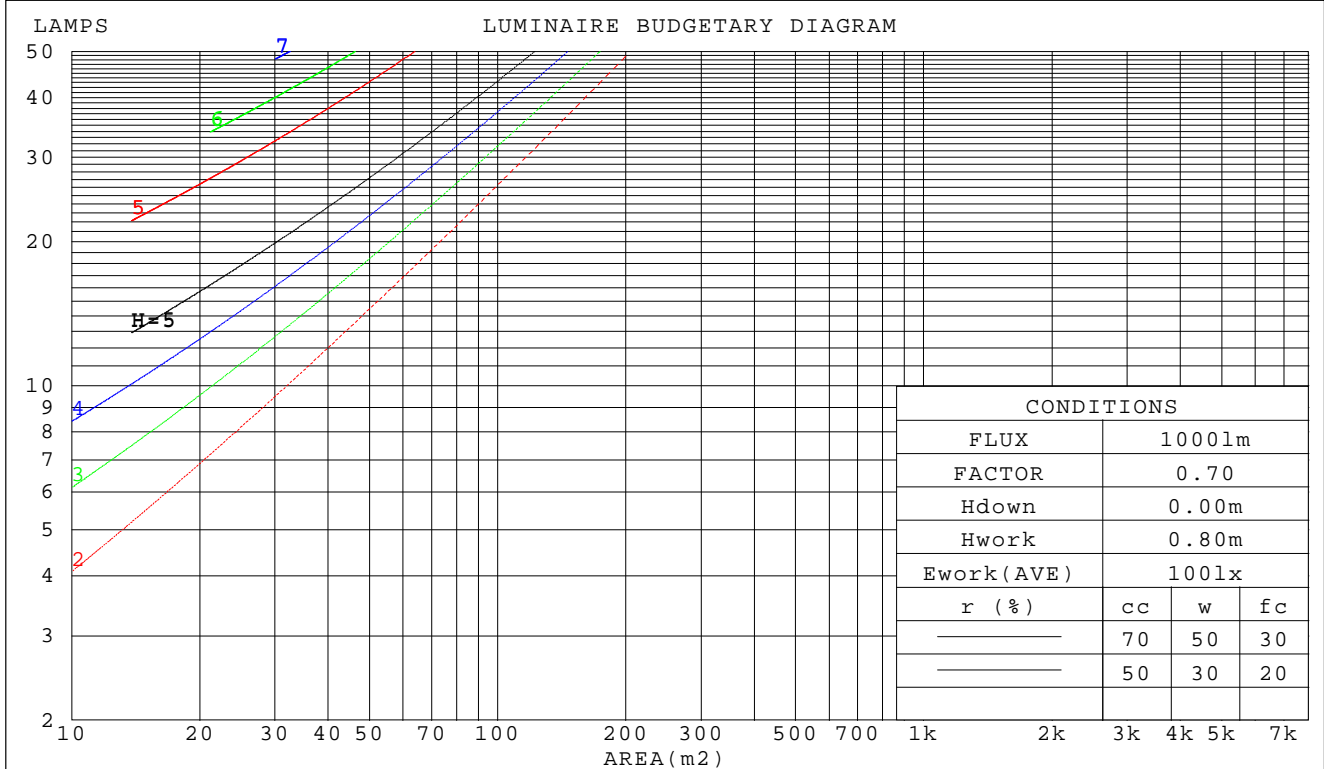
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:LZM  
 Test Date:2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity:65.0%  
 Test Distance:6.172m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 30DEG  
 Operators: LZM  
 Test Date: 2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity: 65.0%  
 Test Distance: 6.172m [K=1.0000]  
 Remarks:

## WEC AND CCEC

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.280 .159 .050	.265 .151 .048	.236 .135 .043	.209 .121 .039	.185 .107 .035	
2.0	.233 .128 .039	.219 .121 .037	.193 .107 .033	.168 .094 .030	.146 .082 .026	
3.0	.203 .108 .032	.190 .102 .031	.166 .090 .027	.144 .079 .024	.123 .068 .021	
4.0	.180 .094 .028	.169 .088 .026	.146 .078 .023	.126 .068 .020	.107 .058 .018	
5.0	.163 .083 .024	.152 .078 .023	.131 .068 .020	.113 .059 .018	.095 .051 .015	
6.0	.148 .074 .021	.138 .070 .020	.119 .061 .018	.102 .053 .016	.085 .045 .013	
7.0	.136 .067 .019	.127 .063 .018	.109 .055 .016	.093 .048 .014	.078 .040 .012	
8.0	.126 .061 .017	.117 .058 .016	.101 .050 .014	.086 .044 .013	.072 .037 .011	
9.0	.117 .057 .016	.109 .053 .015	.094 .046 .013	.080 .040 .011	.066 .034 .010	
10.0	.109 .052 .015	.102 .049 .014	.088 .043 .012	.074 .037 .011	.062 .031 .009	

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.391 .391 .391	.334 .334 .334	.228 .228 .228	.131 .131 .131	.042 .042 .042	
1.0	.391 .369 .350	.335 .317 .301	.229 .218 .208	.132 .126 .121	.042 .041 .039	
2.0	.387 .355 .328	.332 .306 .284	.227 .211 .198	.131 .123 .116	.042 .040 .038	
3.0	.383 .345 .315	.328 .298 .273	.225 .207 .192	.130 .121 .113	.042 .039 .037	
4.0	.378 .337 .306	.324 .291 .266	.223 .203 .187	.129 .119 .111	.041 .039 .036	
5.0	.373 .331 .300	.320 .286 .261	.220 .200 .185	.128 .117 .109	.041 .038 .036	
6.0	.368 .326 .296	.316 .282 .258	.218 .198 .183	.127 .116 .109	.041 .038 .036	
7.0	.363 .322 .293	.312 .279 .256	.216 .196 .181	.125 .115 .108	.041 .038 .036	
8.0	.359 .319 .291	.309 .276 .254	.214 .194 .180	.124 .114 .107	.040 .038 .035	
9.0	.355 .316 .289	.306 .274 .252	.212 .192 .179	.123 .114 .107	.040 .037 .035	
10.0	.351 .313 .288	.302 .272 .251	.210 .191 .178	.122 .113 .106	.040 .037 .035	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:LZM  
 Test Date:2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity:65.0%  
 Test Distance:6.172m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

NAME: E41388						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:160624001				
MFR.: Maxim Lighting International Inc						SUR.:					PROTECTION 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	-4.9	-3.8	-4.0	-2.9	-1.8	-4.7	-3.6	-3.8	-2.7	-1.5					
3H	-2.4	-1.4	-1.5	-0.5	0.7	-4.7	-3.8	-3.8	-2.8	-1.6					
4H	-0.7	0.2	0.2	1.2	2.4	-4.6	-3.7	-3.7	-2.8	-1.6					
6H	2.2	3.1	3.1	4.0	5.2	-4.3	-3.5	-3.4	-2.5	-1.3					
8H	3.1	4.0	4.1	4.9	6.2	-4.0	-3.2	-3.1	-2.2	-1.0					
12H	3.8	4.6	4.8	5.6	6.8	-3.6	-2.8	-2.7	-1.8	-0.6					
4H 2H	-4.9	-3.9	-3.9	-3.0	-1.8	-4.8	-3.8	-3.9	-2.9	-1.7					
3H	-2.6	-1.8	-1.6	-0.8	0.5	-4.7	-3.9	-3.8	-2.9	-1.7					
4H	-0.9	-0.2	0.0	0.8	2.1	-4.5	-3.7	-3.5	-2.7	-1.5					
6H	2.0	2.6	2.9	3.6	4.9	-3.9	-3.3	-3.0	-2.3	-1.0					
8H	2.9	3.5	3.9	4.5	5.9	-3.5	-2.9	-2.5	-1.9	-0.6					
12H	3.6	4.2	4.6	5.2	6.5	-2.8	-2.3	-1.9	-1.3	0.1					
8H 4H	-1.1	-0.5	-0.1	0.5	1.9	-4.4	-3.8	-3.4	-2.8	-1.5					
6H	1.8	2.3	2.8	3.4	4.7	-3.6	-3.1	-2.6	-2.0	-0.7					
8H	2.8	3.3	3.8	4.3	5.7	-2.9	-2.5	-1.9	-1.4	-0.1					
12H	3.7	4.1	4.7	5.1	6.5	-2.0	-1.6	-1.0	-0.6	0.8					
12H 4H	-1.1	-0.6	-0.1	0.4	1.8	-4.4	-3.8	-3.4	-2.8	-1.5					
6H	1.8	2.2	2.8	3.3	4.6	-3.5	-3.0	-2.5	-2.0	-0.6					
8H	2.8	3.2	3.8	4.3	5.6	-2.7	-2.3	-1.7	-1.2	0.1					
Variations with the observer position at spacings:															
S = 1.0H	+ 3.1 / - 4.5					+ 0.5 / - 0.6									
1.5H	+ 4.3 / - 4.2					+ 0.4 / - 0.7									
2.0H	+ 5.2 / - 5.2					+ 1.6 / - 1.8									

CIE Pub.117 Corrected 720.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.1)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:LZM  
 Test Date:2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity:65.0%  
 Test Distance:6.172m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

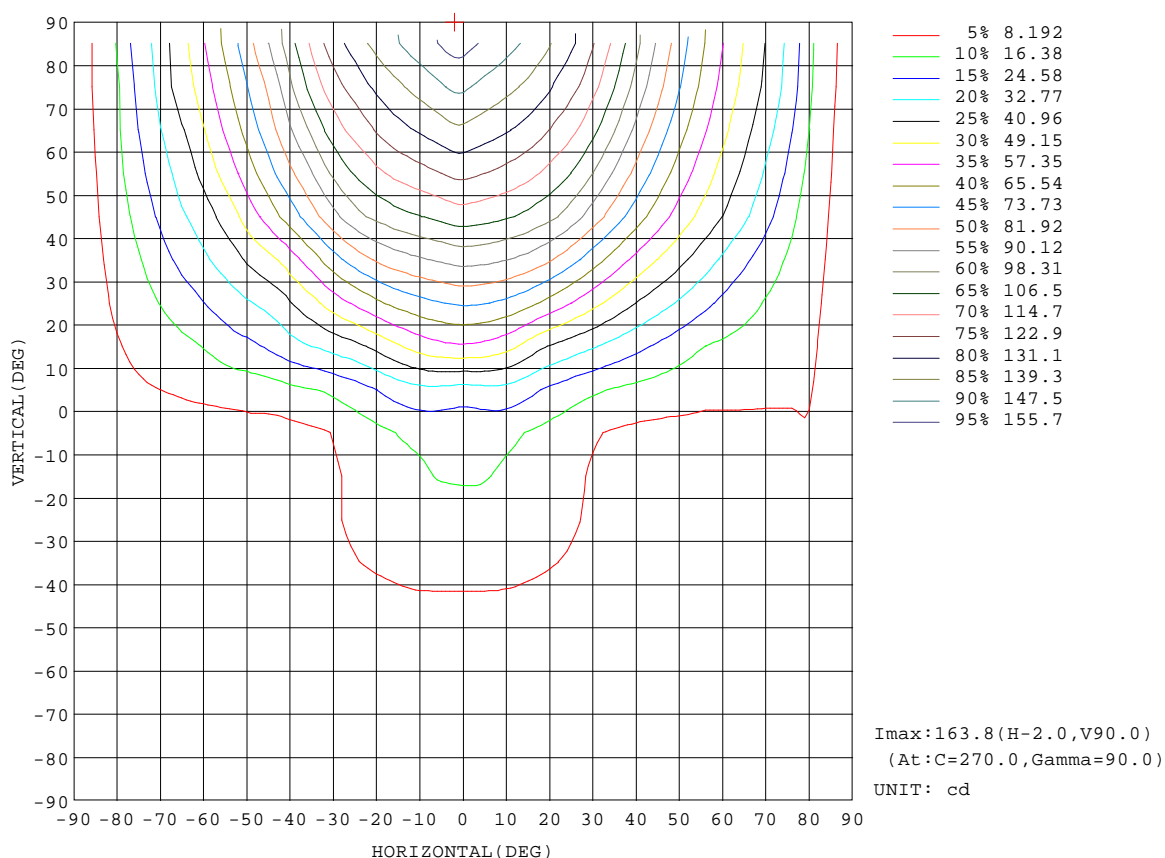
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	24	16	11	23	15	10	20	14	9	4
0.80	30	21	15	28	19	14	25	17	13	6
1.00	35	25	19	32	24	18	28	22	16	8
1.25	39	30	23	37	28	22	31	24	19	10
1.50	43	34	27	40	31	25	34	27	22	12
2.00	48	39	33	45	37	31	38	32	27	14
2.50	52	43	37	48	40	35	40	35	30	16
3.00	54	47	41	50	43	38	42	37	33	18
4.00	58	51	46	53	48	43	45	40	37	20
5.00	60	55	50	55	50	46	47	43	39	22
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:30DEG  
 Operators:LZM  
 Test Date:2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity:65.0%  
 Test Distance:6.172m [K=1.0000]  
 Remarks:

# ISOCANDELA DIAGRAM

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

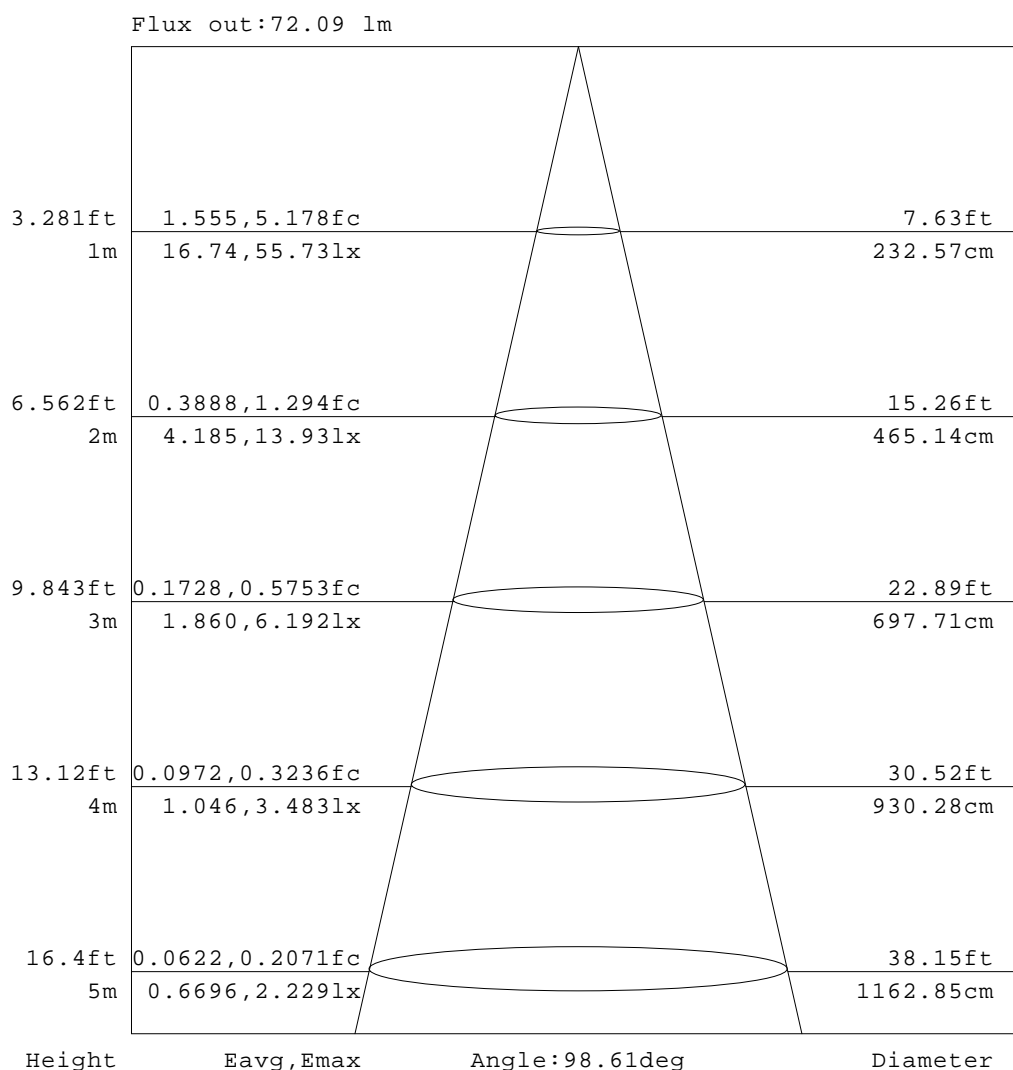


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:LZM  
Test Date:2016-06-24

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:65.0%  
Test Distance:6.172m [K=1.0000]  
Remarks:

# AAI Figure

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:



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

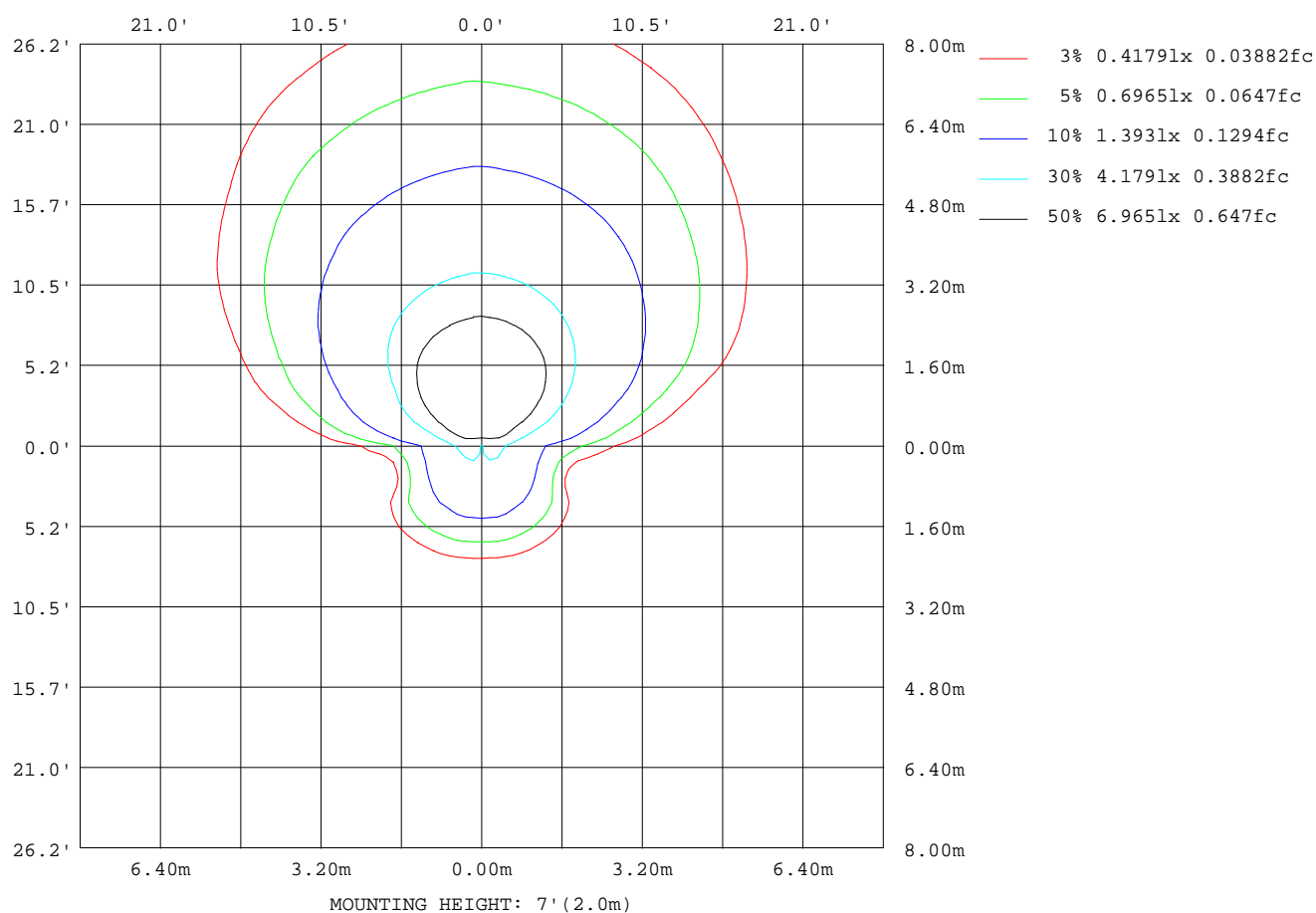
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:LZM  
Test Date:2016-06-24

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:65.0%  
Test Distance:6.172m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

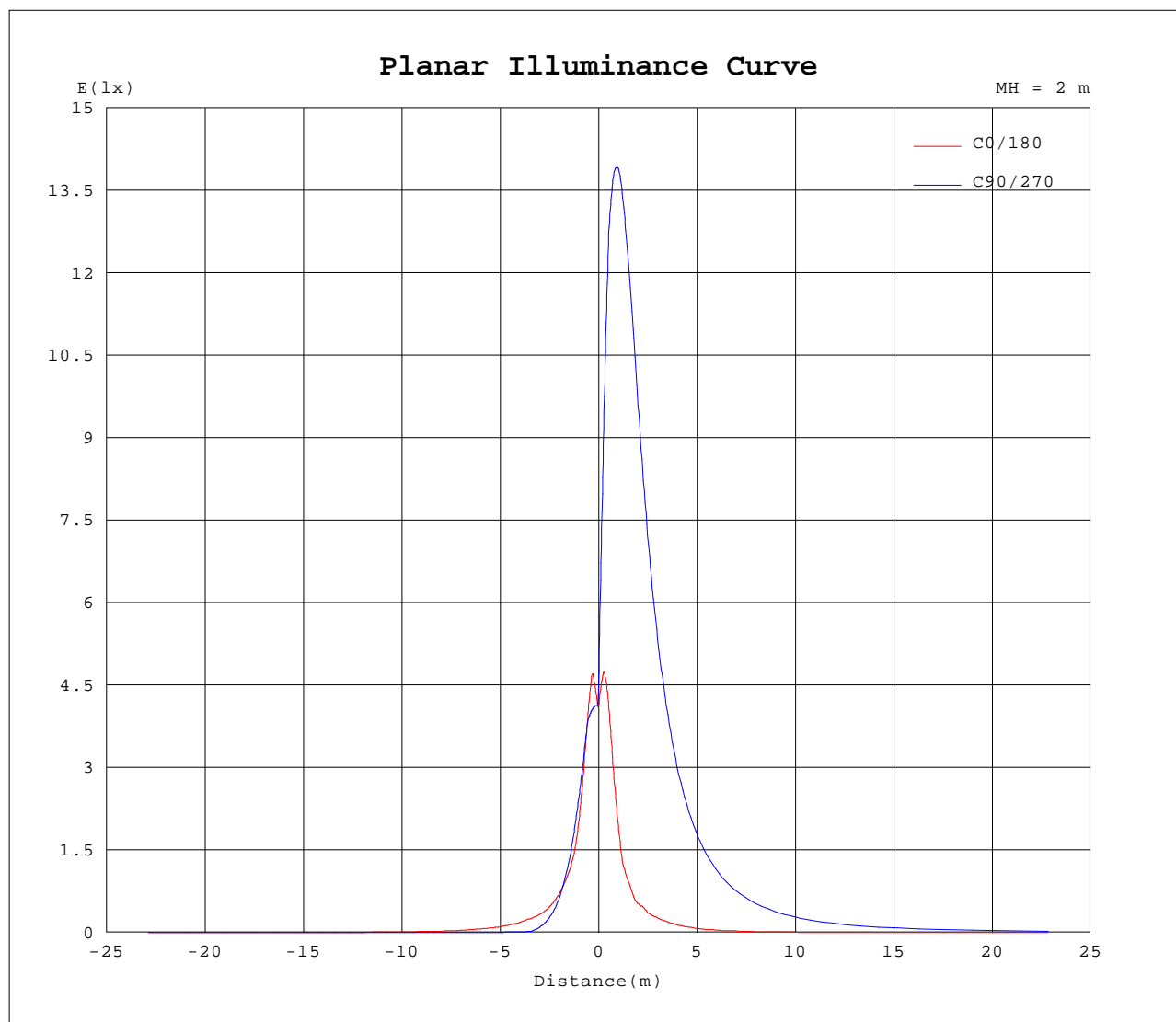
NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 30DEG  
 Operators: LZM  
 Test Date: 2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity: 65.0%  
 Test Distance: 6.172m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 30DEG  
Operators: LZM  
Test Date: 2016-06-24

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity: 65.0%  
Test Distance: 6.172m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
5	18.3	18.2	18.2	18.1	18.0	17.9	17.8	17.7	17.6	17.5	17.4	17.3	17.2	17.1	17.0	16.9	16.8	16.7	16.7
10	19.3	19.0	18.8	18.6	18.5	18.3	18.2	18.0	17.9	17.7	17.6	17.5	17.4	17.3	17.3	17.1	17.0	16.9	16.9
15	17.3	17.0	16.7	16.5	16.4	16.2	16.1	16.1	16.0	16.1	16.2	16.3	16.5	16.6	16.8	17.0	17.1	17.1	17.1
20	14.6	14.3	14.1	14.0	13.9	13.9	13.9	13.9	13.9	13.9	14.0	14.3	14.6	15.0	15.3	15.5	15.6	15.5	15.5
25	11.8	11.6	11.4	11.4	11.4	11.5	11.7	11.9	12.1	12.3	12.5	12.6	12.9	13.3	13.7	14.0	14.0	14.0	14.0
30	9.75	9.33	9.01	8.85	8.85	9.04	9.42	9.90	10.3	10.7	11.0	11.3	11.5	11.8	12.2	12.6	12.5	12.4	12.4
35	8.73	7.86	7.11	6.59	6.35	6.68	7.37	8.03	8.65	9.19	9.62	9.95	10.1	10.3	10.5	10.7	10.7	10.6	10.6
40	8.24	6.70	5.32	4.21	3.89	4.80	5.70	6.55	7.30	7.85	8.14	8.36	8.53	8.66	8.81	8.92	8.93	8.82	8.79
45	7.94	5.91	3.96	2.16	2.57	3.48	4.51	5.49	5.98	6.38	6.69	6.90	7.05	7.15	7.24	7.21	7.10	7.01	6.98
50	7.67	5.52	3.31	1.88	2.10	2.76	3.68	4.28	4.78	5.18	5.46	5.62	5.59	5.47	5.37	5.24	5.06	4.94	4.91
55	7.70	4.96	2.99	2.11	1.67	2.01	2.73	3.39	3.90	4.23	4.11	3.94	3.74	3.54	3.36	3.18	2.99	2.88	2.85
60	8.21	3.83	0.72	1.01	1.11	1.46	2.19	2.85	2.86	2.75	2.55	2.29	1.98	1.68	1.39	1.13	0.93	0.81	0.78
65	8.55	2.80	0.86	1.37	1.19	1.36	1.74	1.80	1.71	1.47	1.13	0.83	0.81	0.80	0.78	0.77	0.75	0.74	0.74
70	8.74	1.17	2.28	1.71	1.00	1.01	1.11	1.03	0.83	0.81	0.80	0.79	0.78	0.77	0.76	0.74	0.73	0.72	0.71
75	8.95	0.53	0.81	1.47	0.95	0.84	0.82	0.81	0.79	0.78	0.77	0.76	0.75	0.75	0.74	0.72	0.70	0.69	0.68
80	8.24	1.46	1.10	1.52	0.84	0.79	0.78	0.76	0.75	0.74	0.73	0.73	0.72	0.72	0.71	0.70	0.68	0.67	0.67
85	3.40	0.20	0.74	1.37	0.79	0.74	0.73	0.72	0.71	0.70	0.70	0.70	0.70	0.69	0.69	0.68	0.66	0.66	0.66
90	0.16	0.09	0.30	1.20	0.72	0.69	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.65	0.64	0.64	0.65
95	4.26	0.08	0.78	1.33	0.74	0.70	0.69	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.66	0.65	0.64	0.64	0.63
100	9.01	1.06	1.35	1.44	0.74	0.69	0.68	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.66	0.65	0.64	0.63	0.62
105	10.0	0.24	0.64	1.29	0.79	0.68	0.67	0.66	0.66	0.66	0.66	0.66	0.67	0.66	0.66	0.65	0.63	0.62	0.61
110	10.6	1.18	2.50	1.76	0.76	0.70	0.78	0.77	0.65	0.65	0.66	0.66	0.66	0.66	0.65	0.64	0.63	0.62	0.61
115	11.0	3.34	0.60	1.00	0.86	0.87	1.16	1.29	1.29	1.15	0.90	0.65	0.65	0.65	0.64	0.63	0.62	0.62	0.61
120	11.3	4.94	0.31	1.03	0.80	0.97	1.39	2.07	2.20	2.20	2.09	1.91	1.67	1.42	1.17	0.95	0.76	0.65	0.62
125	11.4	7.67	4.10	2.42	1.30	0.87	1.63	2.37	3.01	3.45	3.45	3.37	3.25	3.11	2.97	2.86	2.71	2.61	2.59
130	11.4	7.88	4.26	1.68	1.27	1.57	2.29	3.04	3.70	4.22	4.62	4.88	4.93	4.87	4.83	4.79	4.67	4.58	4.57
135	11.3	7.98	4.71	1.57	1.49	2.01	2.89	4.11	4.74	5.28	5.72	6.05	6.29	6.46	6.59	6.68	6.61	6.54	6.54
140	11.3	8.51	5.71	3.01	1.40	2.37	3.51	4.69	5.81	6.67	7.10	7.46	7.74	7.97	8.16	8.35	8.49	8.43	8.41
145	11.4	9.17	7.09	5.24	3.74	3.66	4.70	5.72	6.69	7.59	8.37	9.05	9.36	9.59	9.83	10.2	10.4	10.3	10.3
150	11.7	10.2	8.93	7.78	6.87	6.21	6.36	7.18	7.95	8.70	9.39	10.00	10.5	11.0	11.5	12.0	12.2	12.2	12.2
155	12.7	11.8	11.0	10.3	9.72	9.32	9.08	8.98	9.59	10.2	10.7	11.2	11.7	12.2	12.7	13.3	13.7	13.8	13.8
160	14.8	14.2	13.6	13.1	12.7	12.5	12.2	12.1	12.1	12.1	12.4	12.8	13.2	13.6	14.2	14.9	15.4	15.4	15.4
165	17.3	16.8	16.3	15.9	15.6	15.3	15.1	14.9	14.8	14.8	14.8	14.9	15.1	15.5	16.1	16.8	17.0	17.0	17.0
170	18.5	18.2	17.9	17.7	17.4	17.2	17.1	16.9	16.8	16.8	16.9	17.0	17.2	17.4	17.4	17.4	17.3	17.2	17.1
175	18.8	18.7	18.6	18.5	18.4	18.3	18.3	18.2	18.1	18.0	17.9	17.8	17.7	17.6	17.5	17.4	17.3	17.2	17.1
180	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:LZM  
Test Date:2016-06-24

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:65.0%  
Test Distance:6.172m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) g (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
5	16.7	16.8	16.9	17.0	17.1	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.4	19.5
10	16.9	17.0	17.1	17.2	17.3	17.5	17.6	17.7	17.9	18.0	18.2	18.3	18.4	18.6	18.8	19.0	19.3	19.5	21.5
15	17.0	16.9	16.9	16.9	16.8	16.6	16.4	16.2	16.1	16.1	16.3	16.4	16.6	16.9	17.2	17.5	17.9	18.3	21.0
20	15.5	15.5	15.5	15.4	15.0	14.6	14.2	13.9	13.8	13.9	14.0	14.1	14.2	14.3	14.5	14.7	15.0	15.4	18.8
25	13.9	13.9	13.9	13.7	13.4	12.9	12.6	12.5	12.2	12.0	11.7	11.6	11.6	11.5	11.5	11.6	11.9	12.2	16.4
30	12.4	12.4	12.5	12.4	12.0	11.6	11.4	11.1	10.8	10.3	9.84	9.30	8.91	8.76	8.71	8.75	8.91	9.22	14.4
35	10.6	10.7	10.8	10.7	10.5	10.3	10.2	9.89	9.45	8.88	8.20	7.44	6.62	6.09	6.17	6.55	7.14	7.86	13.7
40	8.81	8.91	9.05	8.99	8.85	8.77	8.68	8.54	8.34	7.79	6.95	5.96	4.86	3.69	3.79	4.69	5.73	6.87	13.4
45	7.03	7.15	7.33	7.40	7.36	7.32	7.25	7.11	6.90	6.59	6.17	4.98	3.81	2.79	2.17	3.37	4.70	6.10	12.7
50	4.97	5.12	5.34	5.53	5.68	5.86	5.98	5.89	5.69	5.36	4.92	4.35	3.25	2.41	1.97	2.85	4.57	6.43	12.9
55	2.91	3.05	3.27	3.48	3.71	3.96	4.24	4.49	4.69	4.43	3.96	3.29	2.50	1.76	1.40	1.57	3.84	6.34	13.1
60	0.84	0.99	1.21	1.48	1.79	2.14	2.50	2.84	3.12	3.31	3.36	2.69	1.88	1.52	1.18	0.72	3.17	6.65	12.5
65	0.76	0.79	0.83	0.85	0.88	0.91	0.95	1.32	1.72	2.02	2.20	2.18	1.78	1.47	1.34	0.78	2.32	6.57	12.1
70	0.72	0.76	0.79	0.82	0.84	0.87	0.91	0.95	0.99	1.03	1.30	1.44	1.38	1.32	1.16	0.83	1.14	6.36	11.6
75	0.68	0.72	0.75	0.79	0.80	0.82	0.86	0.90	0.93	0.97	1.02	1.10	1.18	1.26	1.18	0.58	0.48	6.09	11.1
80	0.68	0.72	0.75	0.78	0.79	0.81	0.83	0.87	0.88	0.91	0.96	1.02	1.09	1.17	1.09	0.58	0.72	5.51	10.3
85	0.68	0.71	0.75	0.78	0.80	0.81	0.83	0.85	0.87	0.89	0.92	0.96	1.01	1.07	1.02	0.51	0.39	2.86	9.41
90	0.68	0.71	0.75	0.78	0.80	0.81	0.83	0.84	0.85	0.86	0.89	0.92	0.97	1.01	0.97	0.41	0.12	0.07	8.97
95	0.66	0.69	0.73	0.76	0.78	0.79	0.81	0.82	0.83	0.84	0.85	0.88	0.92	0.94	0.95	0.46	0.14	2.20	9.03
100	0.64	0.67	0.70	0.73	0.76	0.78	0.79	0.80	0.81	0.82	0.84	0.87	0.91	0.94	0.95	0.50	0.53	4.99	9.42
105	0.62	0.65	0.69	0.72	0.76	0.77	0.80	0.82	0.83	0.85	0.87	0.90	0.93	0.96	0.97	0.53	0.24	5.42	10.2
110	0.63	0.67	0.71	0.75	0.78	0.80	0.83	0.85	0.87	0.88	1.12	1.21	1.06	0.99	1.05	0.79	0.78	5.67	10.9
115	0.64	0.68	0.72	0.77	0.80	0.83	0.86	1.21	1.59	1.87	2.01	1.94	1.47	1.10	1.05	0.65	1.97	5.70	12.0
120	0.68	0.85	1.08	1.38	1.70	2.06	2.42	2.74	3.01	3.17	3.19	2.71	2.02	1.23	0.94	0.67	2.93	5.63	12.8
125	2.67	2.85	3.09	3.34	3.60	3.88	4.16	4.41	4.60	4.50	4.22	3.76	3.13	2.13	1.50	1.53	3.78	5.58	13.2
130	4.66	4.84	5.09	5.35	5.54	5.75	5.93	5.97	5.93	5.80	5.56	5.21	3.85	2.57	1.71	2.53	4.40	5.56	13.3
135	6.64	6.82	7.05	7.26	7.32	7.38	7.44	7.46	7.43	7.33	7.11	5.68	4.12	2.71	1.76	3.18	4.74	5.77	13.3
140	8.50	8.67	8.89	9.01	9.01	9.02	9.06	9.09	9.08	8.58	7.63	6.43	5.06	3.57	3.54	4.46	5.63	6.86	13.7
145	10.4	10.5	10.7	10.9	10.8	10.7	10.7	10.5	10.2	9.60	8.84	7.91	6.86	6.15	6.12	6.41	6.95	8.00	14.1
150	12.2	12.3	12.5	12.7	12.6	12.3	12.1	11.8	11.6	11.2	10.7	10.0	9.41	8.97	8.69	8.60	8.67	9.39	14.7
155	13.8	13.9	14.1	14.2	14.2	14.0	13.8	13.5	13.2	13.0	12.8	12.5	12.2	11.9	11.7	11.6	11.5	12.3	16.6
160	15.4	15.5	15.6	15.7	15.9	15.8	15.7	15.5	15.3	15.2	15.1	15.0	15.0	14.9	14.9	15.0	15.2	16.0	19.4
165	17.0	17.0	17.0	17.1	17.2	17.3	17.3	17.4	17.5	17.5	17.6	17.6	17.7	17.8	18.0	18.2	18.5	19.4	22.1
170	17.0	17.1	17.2	17.3	17.5	17.6	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.3	19.5	19.7	19.9	20.9	22.7
175	17.1	17.0	17.1	17.1	17.2	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.4	19.1	20.1
180	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.7	17.7

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:LZM  
Test Date:2016-06-24

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:65.0%  
Test Distance:6.172m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) g (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
5	20.6	21.6	22.6	23.5	24.4	25.3	26.1	26.8	27.5	28.1	28.6	29.0	29.3	29.5	29.7	29.8	29.8	29.8	29.7
10	23.4	25.4	27.3	29.2	31.0	32.8	34.5	36.0	37.4	38.7	39.9	40.9	41.7	42.4	42.8	43.0	43.1	43.0	42.7
15	23.8	26.5	29.3	32.1	34.9	37.7	40.4	43.0	45.4	47.7	49.8	51.6	53.3	54.6	55.6	56.2	56.4	56.1	55.5
20	22.3	25.9	29.6	33.3	37.1	40.8	44.5	48.2	51.6	54.7	57.5	59.8	61.7	63.3	64.5	65.3	65.7	65.3	64.6
25	20.7	25.1	29.5	34.0	38.4	43.0	47.9	52.6	56.9	60.8	64.3	67.3	69.7	71.6	73.1	74.3	74.9	74.5	73.6
30	19.7	25.0	30.3	35.3	40.5	46.2	51.8	57.4	62.8	67.6	71.6	75.0	77.9	80.0	81.8	83.2	84.1	83.7	82.8
35	19.6	25.5	31.4	37.4	43.5	49.7	56.0	62.5	68.7	74.6	79.2	82.7	85.7	88.2	90.2	91.9	92.9	92.4	91.2
40	20.0	26.6	33.0	38.5	44.6	52.1	59.7	67.2	74.1	80.4	85.7	90.1	93.4	96.2	98.5	101	102	101	99.6
45	19.5	26.6	32.2	38.4	44.9	52.2	61.9	70.9	79.1	86.5	92.6	97.3	101	104	107	109	111	110	108
50	19.6	26.0	31.7	37.4	44.2	54.3	64.3	74.4	84.0	92.6	99.3	104	108	111	114	116	118	116	115
55	20.1	26.3	32.6	39.2	47.4	57.0	67.5	78.2	87.6	96.4	104	109	114	118	121	123	125	123	121
60	19.1	26.2	33.1	40.7	50.1	60.3	70.1	79.8	90.0	100.0	108	114	120	124	127	130	132	130	127
65	18.9	26.5	33.7	41.5	50.9	61.4	71.7	82.1	92.4	104	112	118	124	129	132	136	138	135	132
70	18.8	26.7	33.9	42.1	52.1	62.9	73.9	84.1	95.1	106	116	122	128	133	137	141	143	140	137
75	18.2	26.9	34.4	43.1	53.6	63.6	74.1	84.8	97.6	110	119	126	133	138	142	147	149	145	142
80	17.8	26.7	35.0	44.1	54.2	64.6	75.3	86.1	100	113	123	130	137	142	147	152	154	150	146
85	17.2	26.7	37.3	46.2	55.9	66.5	77.7	89.3	103	116	127	134	142	147	152	157	159	154	150
90	17.8	28.9	37.1	46.8	58.5	69.5	81.1	93.5	107	120	131	139	146	152	157	161	163	159	155
95	17.7	29.0	39.0	47.8	57.5	68.2	79.5	91.5	104	117	128	136	143	148	153	158	159	155	151
100	17.5	28.4	38.7	47.7	57.0	67.7	78.9	90.6	103	115	125	133	140	145	149	154	155	151	147
105	18.1	28.0	37.9	47.4	56.8	67.0	77.8	89.2	101	113	123	130	137	141	146	150	151	148	144
110	18.8	27.9	37.6	46.6	55.9	66.5	77.5	88.3	99.4	110	119	126	132	137	141	145	146	142	139
115	19.6	28.1	36.9	45.7	54.9	64.9	75.5	86.4	97.5	108	116	122	128	132	136	140	141	137	134
120	20.4	28.4	36.6	44.9	53.9	63.9	73.8	83.9	94.1	104	112	118	123	127	131	134	135	132	129
125	21.1	28.6	36.2	44.0	52.3	61.5	71.5	81.7	90.9	99.7	107	113	117	121	124	127	128	125	123
130	21.1	28.8	35.7	42.7	50.4	59.2	68.4	77.7	86.8	95.5	102	107	111	115	117	120	120	118	116
135	20.9	28.6	35.1	41.9	49.2	56.9	65.3	73.6	81.7	89.3	95.5	101	105	108	110	113	113	111	109
140	20.6	27.6	34.4	40.8	47.5	54.6	62.0	69.6	76.7	83.1	88.5	93.1	96.6	99.4	102	104	104	102	100
145	20.3	26.6	32.8	38.9	45.0	51.4	58.0	64.6	71.1	77.2	82.0	85.6	88.6	91.0	92.9	94.5	94.5	93.4	91.9
150	20.2	25.6	31.0	36.4	41.9	47.6	53.4	59.2	64.6	69.6	73.8	77.4	80.2	82.4	84.1	85.3	85.3	84.4	83.1
155	21.1	25.7	30.3	34.9	39.4	43.9	48.8	53.6	58.0	62.0	65.6	68.6	71.0	72.9	74.4	75.4	75.4	74.7	73.6
160	23.0	26.7	30.3	34.0	37.7	41.4	44.9	48.4	51.7	54.9	57.8	60.1	62.0	63.6	64.7	65.4	65.4	64.9	64.0
165	24.7	27.4	30.2	32.9	35.6	38.3	40.9	43.3	45.6	47.6	49.6	51.3	52.8	54.0	54.8	55.4	55.4	55.1	54.4
170	24.5	26.4	28.1	29.9	31.6	33.2	34.7	36.1	37.5	38.7	39.8	40.8	41.5	42.1	42.5	42.8	42.8	42.8	42.5
175	21.1	22.1	23.1	24.0	24.9	25.7	26.5	27.2	27.8	28.4	28.8	29.2	29.6	29.8	30.0	30.2	30.3	30.3	30.2
180	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 30DEG  
 Operators: LZM  
 Test Date: 2016-06-24

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity: 65.0%  
 Test Distance: 6.172m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41388	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:160624001
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) g (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5				
5	29.5	29.2	28.9	28.5	27.9	27.3	26.7	25.9	25.1	24.3	23.3	22.4	21.4	20.4	19.3				
10	42.3	41.6	40.7	39.6	38.4	37.1	35.6	34.1	32.5	30.7	28.9	27.0	25.1	23.1	21.2				
15	54.4	53.0	51.3	49.3	47.2	44.8	42.2	39.5	36.7	33.8	30.9	28.1	25.3	22.6	19.9				
20	63.4	61.7	59.6	57.0	53.9	50.3	46.2	42.3	38.4	34.7	31.2	27.7	24.4	21.0	17.8				
25	72.2	70.1	67.5	64.1	60.0	55.4	50.3	45.2	40.3	36.2	32.2	28.0	23.9	19.8	15.8				
30	81.1	78.8	75.7	71.9	67.0	61.6	55.9	50.2	44.4	38.7	33.4	28.6	23.8	19.1	14.4				
35	89.4	86.8	83.7	79.6	74.5	68.1	61.4	54.6	48.0	41.6	35.3	29.5	24.1	18.9	13.8				
40	97.4	94.4	90.6	85.8	80.0	73.2	66.0	58.5	51.0	43.8	36.8	30.2	24.3	18.8	13.4				
45	105	102	97.7	92.4	85.6	77.9	69.8	61.6	53.4	45.5	38.1	31.0	24.2	18.5	13.1				
50	112	108	104	98.7	91.4	82.7	73.6	64.5	55.7	47.3	39.4	31.7	24.2	17.9	12.6				
55	118	114	109	103	95.0	86.3	77.5	67.8	58.3	49.3	41.1	32.7	24.4	16.8	12.1				
60	124	119	114	107	98.5	89.0	79.4	70.0	61.0	51.5	42.4	33.7	24.8	17.0	12.2				
65	129	124	118	111	102	92.0	81.6	71.5	62.0	53.1	44.2	34.6	24.9	17.5	12.3				
70	133	128	122	114	104	93.9	83.4	73.5	63.4	54.0	45.5	36.6	26.1	17.5	12.1				
75	138	132	125	117	107	95.9	84.9	74.4	64.4	55.1	46.3	37.5	28.0	17.4	11.9				
80	142	136	129	120	110	98.1	86.8	76.1	65.7	55.9	47.1	38.7	28.8	18.0	11.3				
85	146	140	132	123	112	100	88.5	77.4	66.9	57.1	48.4	40.2	30.4	18.4	10.6				
90	150	144	136	127	115	103	91.1	79.7	68.9	58.7	49.8	41.3	31.7	19.2	10.9				
95	146	140	133	124	113	101	89.4	78.4	67.9	58.1	49.3	41.1	31.6	19.9	11.9				
100	143	137	130	122	111	99.7	88.7	78.0	67.6	57.7	48.6	40.2	30.7	20.7	12.9				
105	139	134	127	119	109	97.9	87.1	76.7	66.7	57.2	48.2	39.4	30.5	21.3	14.3				
110	135	129	123	116	106	96.0	85.9	76.1	66.0	56.4	47.6	39.2	30.4	22.2	15.2				
115	130	125	120	113	104	94.2	84.2	74.4	64.9	55.9	47.2	38.6	30.6	23.2	16.6				
120	126	121	115	109	100	91.3	82.1	73.0	64.2	54.8	46.2	38.3	31.1	24.2	17.7				
125	119	115	110	104	96.8	88.6	80.3	71.1	62.0	53.4	45.3	38.1	31.5	25.0	18.3				
130	113	109	105	99.9	93.1	84.9	76.5	68.0	59.8	51.9	44.7	38.0	31.7	25.1	18.4				
135	106	103	98.6	93.5	87.2	80.0	72.5	65.0	57.5	50.4	43.7	37.5	31.5	24.8	18.3				
140	98.1	95.1	91.3	86.7	81.2	75.1	68.5	61.7	54.9	48.4	42.3	36.4	30.4	24.2	18.1				
145	89.9	87.2	84.2	80.2	75.4	69.8	63.8	57.8	51.8	45.9	40.2	34.6	28.9	23.3	17.7				
150	81.4	79.0	76.1	72.6	68.5	63.8	58.8	53.6	48.4	43.1	37.9	32.8	27.7	22.6	17.5				
155	72.0	70.0	67.5	64.5	61.2	57.5	53.4	49.2	44.8	40.4	35.9	31.5	27.0	22.6	18.2				
160	62.7	61.1	59.1	56.7	54.0	51.1	47.9	44.6	41.2	37.7	34.1	30.5	26.8	23.2	19.6				
165	53.4	52.1	50.5	48.6	46.6	44.5	42.2	39.7	37.2	34.6	31.9	29.3	26.5	23.8	21.0				
170	42.0	41.4	40.5	39.5	38.3	37.0	35.5	33.9	32.2	30.5	28.7	26.9	25.1	23.2	21.3				
175	30.1	29.8	29.5	29.1	28.6	28.0	27.4	26.7	26.0	25.2	24.3	23.4	22.5	21.5	20.5				
180	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:LZM  
Test Date:2016-06-24

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:65.0%  
Test Distance:6.172m [K=1.0000]  
Remarks: