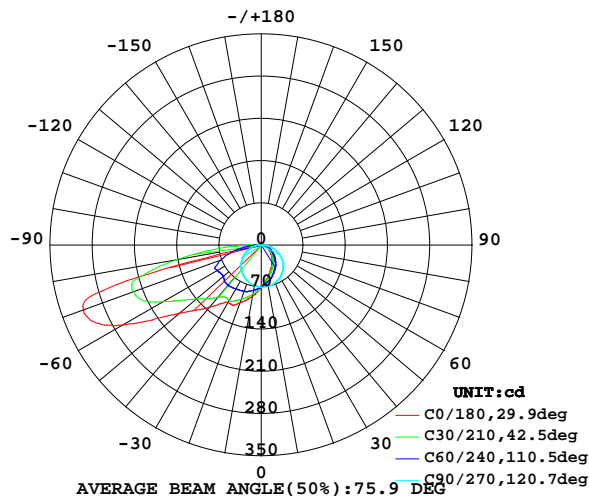


LUMINAIRE PHOTOMETRIC TEST REPORT

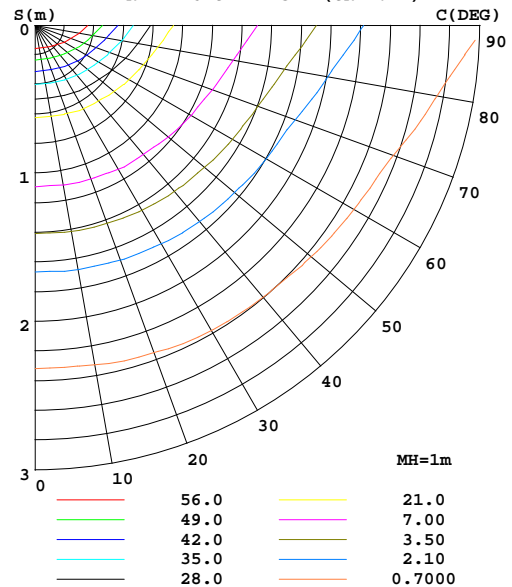
NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 39.75 lm/W
MODEL	SAMSUNG LED	Imax(cd)	314.7	S/MH(C0/180)	0.80	
NOMINAL POWER(W)	8.4	LOR(%)	52.2	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	391.51	h UP,DN(C0-180)	0.1,25.7	
NOMINAL FLUX(lm)	750	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.1,26.3	
LAMPS INSIDE	1	h up(%)	0.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	11.9	h down(%)	52.0	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	63.39	65.06	69.99	75.51	78.15	75.14	69.52	64.77	0- 5	1.680	1.680	0.43,0.22
10	56.86	59.91	69.52	81.11	86.68	80.28	68.57	59.39	5- 10	5.022	6.701	1.71,0.89
15	50.92	55.11	69.04	86.66	94.04	85.41	67.63	54.42	10- 15	8.339	15.04	3.84,2.01
20	45.50	50.64	66.91	91.58	102.1	89.72	65.14	49.77	15- 20	11.57	26.61	6.8,3.55
25	40.60	45.62	64.78	95.90	110.7	93.48	62.66	44.73	20- 25	14.66	41.27	10.5,5.5
30	35.97	40.85	62.65	100.6	110.6	97.58	60.17	39.97	25- 30	17.52	58.79	15,7.84
35	31.75	36.49	59.15	102.6	119.6	100.0	56.49	35.63	30- 35	19.96	78.75	20.1,10.5
40	27.84	32.42	55.64	101.5	135.3	98.12	52.81	31.59	35- 40	22.48	101.2	25.9,13.5
45	24.21	28.14	52.14	108.1	153.0	102.0	49.12	27.40	40- 45	25.24	126.5	32.3,16.9
50	20.84	23.97	47.15	117.7	176.3	110.3	44.21	23.63	45- 50	28.21	154.7	39.5,20.6
55	17.70	20.47	42.16	128.5	214.3	119.4	39.29	20.22	50- 55	31.73	186.4	47.6,24.9
60	14.76	17.05	37.17	145.0	265.5	132.7	34.37	16.82	55- 60	36.56	223.0	57,29.7
65	12.06	13.92	31.01	164.4	304.5	149.1	28.64	13.72	60- 65	41.91	264.9	67.7,35.3
70	9.548	10.82	24.85	163.2	314.5	148.1	22.92	10.85	65- 70	44.76	309.6	79.1,41.3
75	7.223	8.108	18.68	130.2	232.2	118.8	17.20	8.058	70- 75	41.58	351.2	89.7,46.8
80	5.045	5.507	12.52	90.52	3.923	82.85	11.47	5.372	75- 80	24.10	375.3	95.9,50
85	1.722	2.951	6.353	46.47	0.0520	42.58	5.747	2.756	80- 85	10.98	386.3	98.7,51.5
90	0.1536	0.4211	0.1883	0.1536	0.0401	0.0000	0.0223	0.1734	85- 90	3.617	389.9	99.6,52
95	0.4880	0.4377	0.2052	0.1607	0	0	0.0339	0.2204	90- 95	0.1053	390.0	99.6,52
100	0.5598	0.4496	0.2221	0.1684	0	0	0.0454	0.2631	95-100	0.1171	390.1	99.7,52
105	0.5449	0.4589	0.2390	0.1727	0	0	0.0570	0.3041	100-105	0.1237	390.3	99.7,52
110	0.5301	0.4677	0.2560	0.1782	0	0	0.0685	0.3372	105-110	0.1257	390.4	99.7,52.1
115	0.5499	0.4930	0.2729	0.1847	0	0.0087	0.0800	0.3692	110-115	0.1266	390.5	99.7,52.1
120	0.5647	0.5201	0.2898	0.1972	0	0.0286	0.0916	0.3900	115-120	0.1278	390.7	99.8,52.1
125	0.5598	0.5783	0.3146	0.2232	0.0049	0.0491	0.1155	0.4035	120-125	0.1289	390.8	99.8,52.1
130	0.5523	0.5730	0.3394	0.2287	0.0148	0.0506	0.1395	0.3768	125-130	0.1267	390.9	99.8,52.1
135	0.5102	0.5462	0.3641	0.2380	0.0322	0.0546	0.1635	0.3471	130-135	0.1173	391.0	99.9,52.1
140	0.4532	0.5137	0.3658	0.2411	0.0396	0.0735	0.1659	0.3203	135-140	0.1036	391.1	99.9,52.2
145	0.4409	0.4865	0.3674	0.2480	0.0570	0.0810	0.1684	0.3038	140-145	0.0905	391.2	99.9,52.2
150	0.4087	0.4404	0.3690	0.2459	0.0718	0.0959	0.1709	0.2854	145-150	0.0783	391.3	99.9,52.2
155	0.3839	0.4065	0.3484	0.2442	0.0867	0.1177	0.1808	0.2767	150-155	0.0656	391.4	100,52.2
160	0.3517	0.3719	0.3278	0.2433	0.1090	0.1384	0.1907	0.2624	155-160	0.0531	391.4	100,52.2
165	0.3269	0.3403	0.3072	0.2428	0.1238	0.1550	0.2007	0.2470	160-165	0.0408	391.5	100,52.2
170	0.3022	0.3098	0.2882	0.2473	0.1535	0.1654	0.1998	0.2328	165-170	0.0286	391.5	100,52.2
175	0.2749	0.2838	0.2691	0.2472	0.1709	0.1847	0.1990	0.2134	170-175	0.0168	391.5	100,52.2
180	0.2501	0.2501	0.2501	0.2501	0.1981	0.1981	0.1981	0.1981	175-180	0.0055	391.5	100,52.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

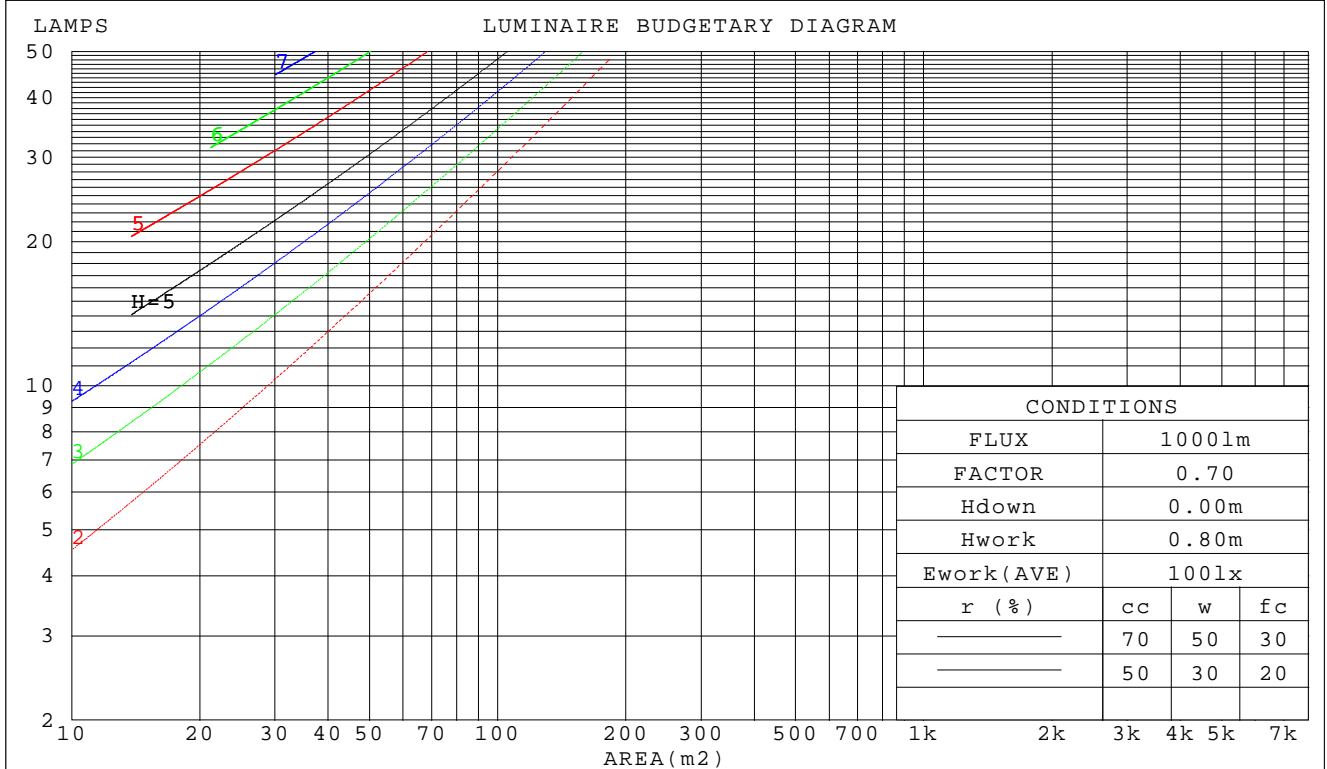
g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.172m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light 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:LCZ
 Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light 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	.213 .121 .038	.209 .119 .038	.202 .116 .037	.195 .113 .036	.189 .110 .035	
2.0	.194 .106 .033	.191 .105 .032	.184 .102 .032	.178 .100 .031	.172 .097 .031	
3.0	.174 .093 .028	.171 .092 .028	.165 .089 .027	.160 .087 .027	.155 .086 .026	
4.0	.156 .081 .024	.154 .080 .024	.148 .079 .023	.143 .077 .023	.139 .075 .023	
5.0	.141 .072 .021	.139 .071 .021	.134 .070 .021	.130 .068 .020	.126 .067 .020	
6.0	.129 .064 .018	.126 .064 .018	.122 .063 .018	.118 .061 .018	.115 .060 .018	
7.0	.118 .058 .017	.116 .058 .016	.112 .057 .016	.109 .056 .016	.105 .055 .016	
8.0	.109 .053 .015	.107 .053 .015	.103 .052 .015	.100 .051 .015	.097 .050 .015	
9.0	.101 .049 .014	.099 .048 .014	.096 .047 .013	.093 .047 .013	.091 .046 .013	
10.0	.094 .045 .012	.092 .045 .012	.090 .044 .012	.087 .043 .012	.085 .043 .012	

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	.101 .101 .101	.086 .086 .086	.059 .059 .059	.034 .034 .034	.011 .011 .011	
1.0	.099 .083 .068	.085 .071 .058	.058 .049 .040	.033 .028 .023	.011 .009 .008	
2.0	.097 .070 .048	.083 .061 .041	.057 .042 .029	.033 .024 .017	.011 .008 .005	
3.0	.094 .062 .036	.080 .053 .031	.055 .037 .022	.032 .022 .013	.010 .007 .004	
4.0	.090 .055 .028	.077 .047 .024	.053 .033 .017	.031 .019 .010	.010 .006 .003	
5.0	.086 .050 .023	.074 .043 .020	.051 .030 .014	.029 .018 .008	.009 .006 .003	
6.0	.082 .046 .020	.070 .039 .017	.048 .028 .012	.028 .016 .007	.009 .005 .002	
7.0	.078 .042 .017	.067 .036 .015	.046 .026 .011	.027 .015 .006	.009 .005 .002	
8.0	.074 .039 .015	.064 .034 .013	.044 .024 .009	.026 .014 .006	.008 .005 .002	
9.0	.070 .036 .014	.060 .032 .012	.042 .022 .008	.024 .013 .005	.008 .004 .002	
10.0	.067 .034 .012	.058 .030 .011	.040 .021 .008	.023 .012 .005	.008 .004 .002	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:LCZ
 Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

NAME: E41383-WT					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:161117003				
MFR.: Maxim Light 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					8.5	10.3	8.8	10.5	10.8	11.6	13.4	11.9	13.6	13.8
3H					9.9	11.6	10.3	11.9	12.1	13.5	15.2	13.8	15.4	15.7
4H					10.6	12.2	10.9	12.5	12.8	14.4	16.0	14.8	16.3	16.6
6H					11.2	12.7	11.5	13.0	13.3	15.2	16.8	15.6	17.1	17.4
8H					11.4	12.8	11.7	13.1	13.5	15.6	17.1	15.9	17.4	17.7
12H					11.4	12.9	11.8	13.2	13.5	15.8	17.3	16.2	17.6	17.9
4H 2H					9.2	10.8	9.6	11.1	11.4	11.7	13.3	12.0	13.6	13.9
3H					10.9	12.3	11.2	12.6	12.9	13.7	15.2	14.1	15.5	15.8
4H					11.7	13.0	12.1	13.4	13.7	14.8	16.1	15.2	16.4	16.8
6H					12.5	13.6	12.9	14.0	14.4	15.7	16.9	16.1	17.3	17.7
8H					12.7	13.8	13.1	14.2	14.6	16.2	17.3	16.6	17.6	18.1
12H					12.8	13.9	13.3	14.3	14.7	16.5	17.6	17.0	18.0	18.4
8H 4H					12.1	13.2	12.5	13.6	14.0	14.9	16.0	15.3	16.3	16.8
6H					13.1	14.0	13.5	14.4	14.9	15.9	16.9	16.4	17.3	17.7
8H					13.5	14.3	13.9	14.7	15.2	16.4	17.3	16.9	17.7	18.2
12H					13.7	14.5	14.2	14.9	15.4	16.9	17.7	17.4	18.1	18.6
12H 4H					12.2	13.2	12.6	13.6	14.0	14.8	15.9	15.3	16.3	16.7
6H					13.2	14.0	13.7	14.5	14.9	16.0	16.8	16.4	17.2	17.7
8H					13.7	14.4	14.1	14.8	15.3	16.5	17.2	17.0	17.7	18.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.2 / - 0.2					+ 0.4 / - 0.3				
1.5H					+ 0.1 / - 0.3					+ 0.9 / - 0.7				
2.0H					+ 0.1 / - 0.3					+ 1.4 / - 1.1				

CIE Pub.117 Corrected 750.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.0)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:

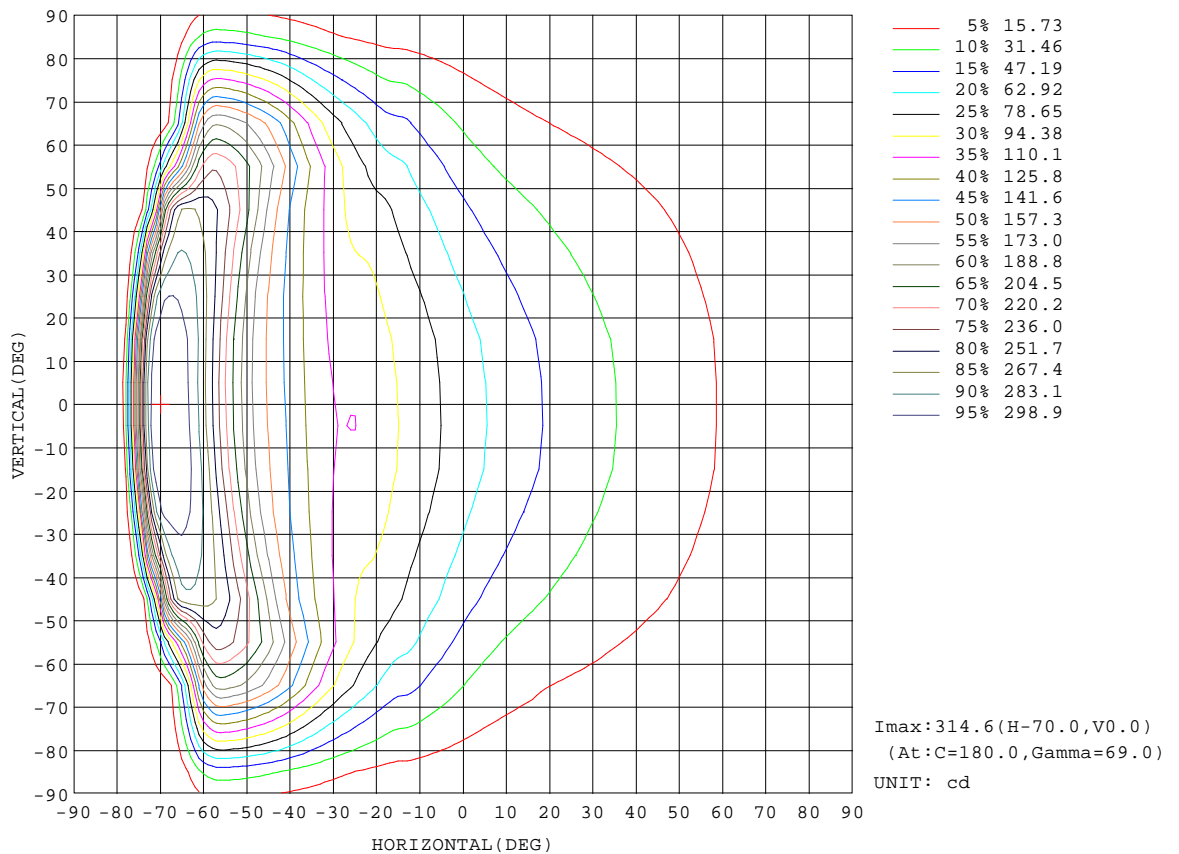
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	25	18	14	25	18	14	24	18	14	10
0.80	30	22	18	29	22	18	28	22	18	13
1.00	34	27	22	33	26	22	32	27	21	17
1.25	38	31	26	37	30	26	35	29	25	21
1.50	41	34	29	40	33	29	38	32	28	24
2.00	45	39	35	44	38	34	42	37	33	28
2.50	48	42	38	47	42	38	44	40	37	32
3.00	50	45	42	49	44	41	46	43	40	35
4.00	53	49	46	52	48	45	49	46	44	38
5.00	55	51	49	53	50	48	51	48	46	41
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:LCZ
 Test Date:2016-11-17

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: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:



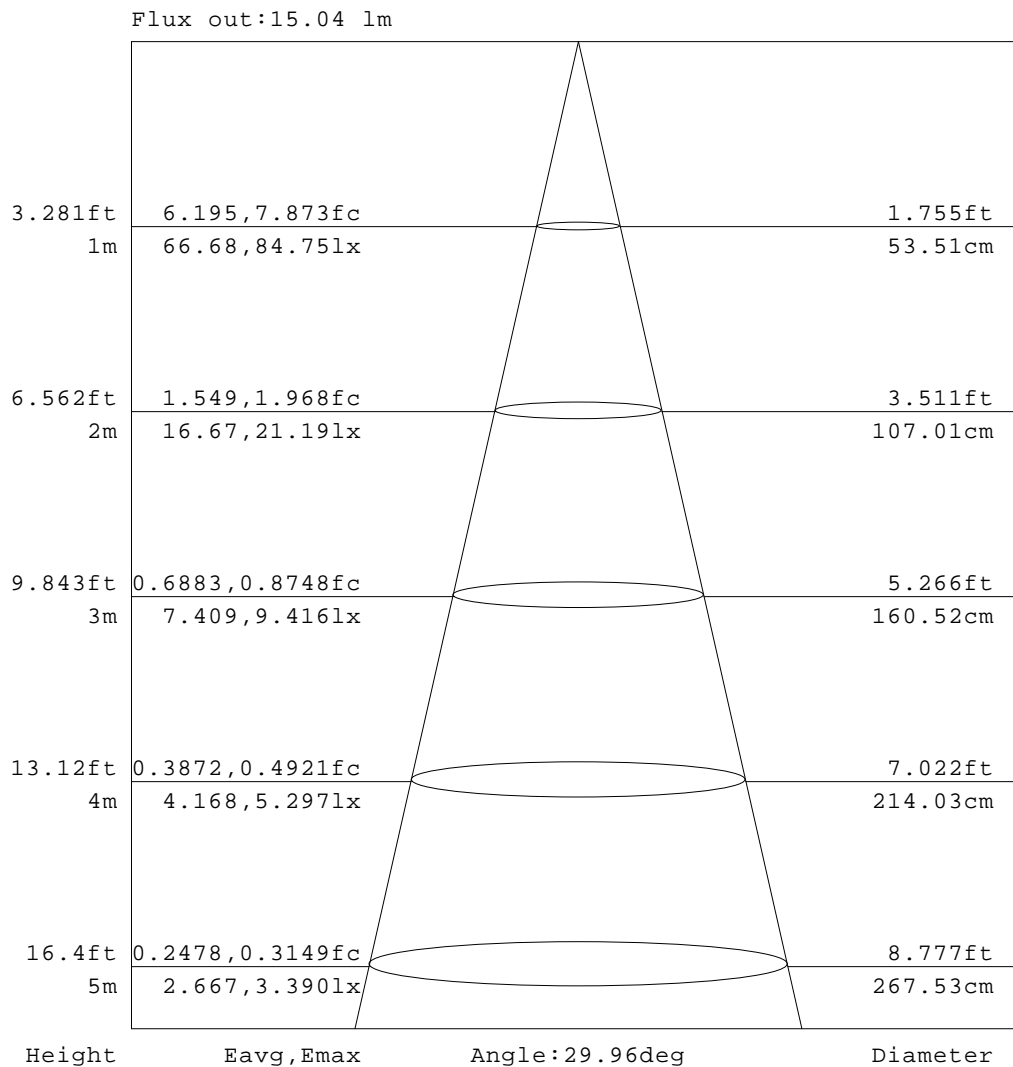
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:



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

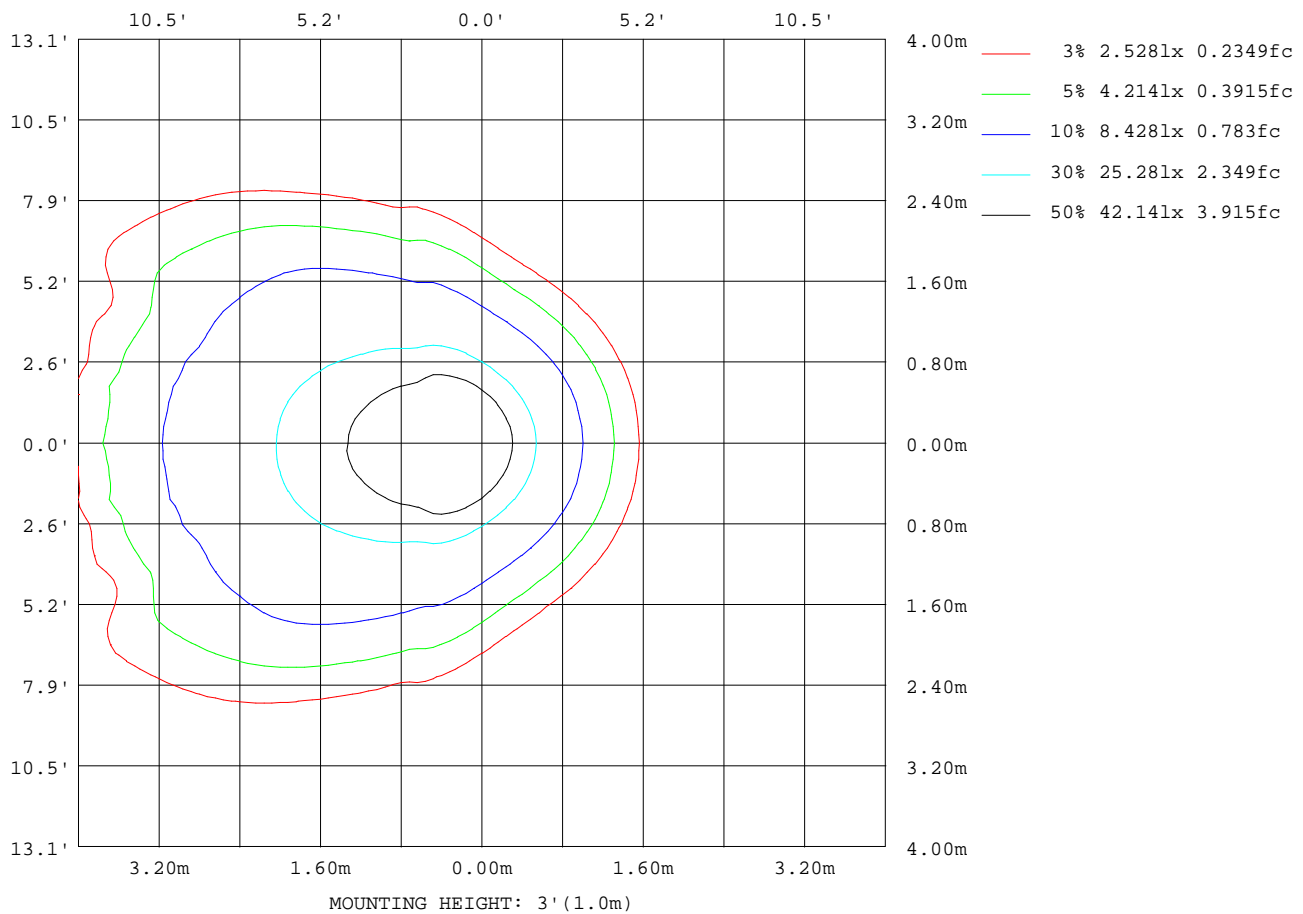
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

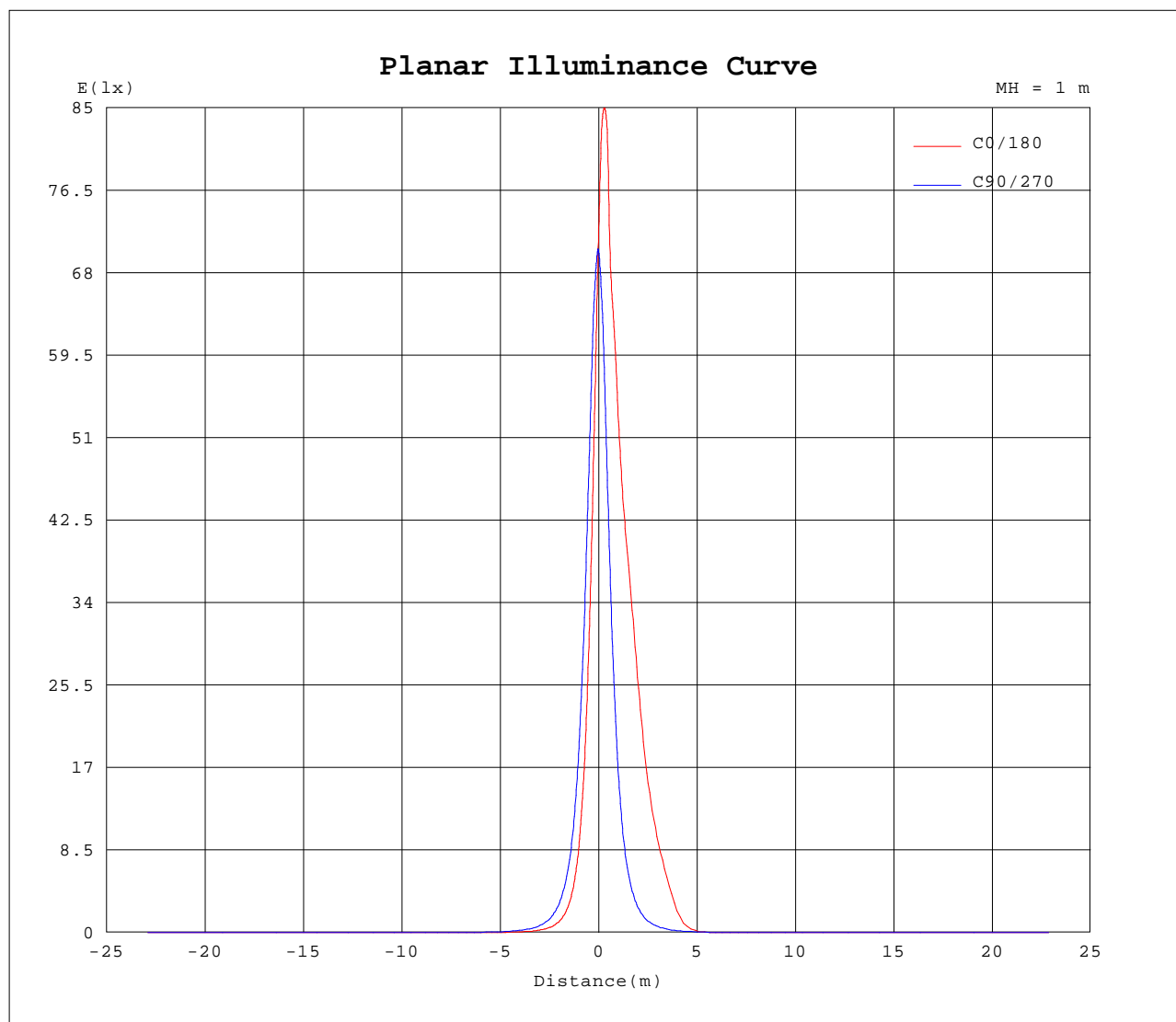
NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: LCZ
Test Date: 2016-11-17

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: LCZ
Test Date: 2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light 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	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
5	63.4	63.4	63.4	63.5	63.6	63.8	64.1	64.4	64.7	65.1	65.5	65.9	66.4	67.0	67.6	68.2	68.8	69.4	70.0
10	56.9	56.8	56.9	57.0	57.3	57.6	58.0	58.6	59.2	59.9	60.7	61.6	62.5	63.6	64.7	65.8	67.0	68.3	69.5
15	50.9	50.9	50.9	51.1	51.5	51.9	52.5	53.3	54.1	55.1	56.2	57.5	58.8	60.3	61.9	63.5	65.3	67.2	69.0
20	45.5	45.4	45.5	45.7	46.1	46.7	47.5	48.4	49.4	50.6	51.8	53.1	54.5	56.1	57.9	59.9	62.1	64.4	66.9
25	40.6	40.5	40.6	40.8	41.3	41.9	42.8	43.9	44.6	45.6	46.8	48.2	49.8	51.7	53.8	56.2	58.8	61.7	64.8
30	36.0	35.9	36.0	36.3	36.9	37.6	38.3	38.9	39.8	40.8	42.1	43.7	45.5	47.6	50.0	52.7	55.7	59.0	62.6
35	31.7	31.6	31.8	32.2	32.8	33.3	33.8	34.5	35.4	36.5	37.9	39.5	41.2	43.1	45.4	48.1	51.3	55.0	59.1
40	27.8	27.7	27.9	28.3	28.8	29.1	29.7	30.4	31.3	32.4	33.5	34.8	36.4	38.3	40.7	43.5	47.0	51.0	55.6
45	24.2	24.1	24.3	24.8	25.0	25.4	25.9	26.7	27.3	28.1	29.2	30.4	32.0	33.9	36.2	39.1	42.7	47.0	52.1
50	20.8	20.8	21.0	21.3	21.4	21.9	22.5	22.9	23.4	24.0	25.3	26.4	27.8	29.3	31.4	34.0	37.3	41.7	47.2
55	17.7	17.7	18.0	18.0	18.2	18.6	18.9	19.4	19.9	20.5	21.1	22.2	23.2	24.5	26.4	28.9	32.0	36.4	42.2
60	14.8	14.8	15.0	15.1	15.4	15.6	15.9	16.3	16.6	17.1	17.5	18.4	19.1	20.0	21.5	24.0	26.9	31.2	37.2
65	12.1	12.1	12.2	12.5	12.6	12.9	13.2	13.3	13.5	13.9	14.3	14.8	15.4	16.2	17.4	19.6	22.1	25.8	31.0
70	9.55	9.63	9.77	9.93	10.2	10.4	10.5	10.7	10.7	10.8	11.3	11.7	12.2	12.8	13.7	15.6	17.6	20.6	24.8
75	7.22	7.33	7.52	7.66	7.83	8.05	8.06	8.05	8.06	8.11	8.45	8.75	9.14	9.59	10.3	11.6	13.1	15.4	18.7
80	5.05	4.97	5.38	5.48	5.67	5.53	5.48	5.47	5.47	5.51	5.70	5.90	6.15	6.45	6.87	7.77	8.78	10.3	12.5
85	1.72	1.77	2.06	2.71	3.05	2.98	2.96	2.95	2.94	2.95	3.03	3.11	3.22	3.35	3.56	3.99	4.49	5.24	6.35
90	0.15	0.54	0.55	0.51	0.52	0.50	0.49	0.48	0.45	0.42	0.38	0.35	0.32	0.29	0.27	0.25	0.23	0.21	0.19
95	0.49	0.73	0.66	0.58	0.56	0.54	0.53	0.51	0.47	0.44	0.40	0.37	0.33	0.31	0.29	0.26	0.24	0.22	0.21
100	0.56	0.61	0.64	0.62	0.60	0.57	0.56	0.52	0.49	0.45	0.42	0.38	0.35	0.32	0.31	0.28	0.26	0.24	0.22
105	0.54	0.60	0.62	0.67	0.62	0.60	0.59	0.53	0.50	0.46	0.43	0.39	0.36	0.34	0.32	0.30	0.28	0.26	0.24
110	0.53	0.56	0.59	0.63	0.62	0.60	0.59	0.56	0.50	0.47	0.43	0.40	0.37	0.36	0.34	0.31	0.29	0.28	0.26
115	0.55	0.57	0.60	0.64	0.63	0.63	0.61	0.57	0.52	0.49	0.45	0.40	0.38	0.38	0.36	0.33	0.31	0.29	0.27
120	0.56	0.58	0.61	0.64	0.65	0.64	0.63	0.59	0.55	0.52	0.50	0.45	0.42	0.41	0.38	0.35	0.33	0.31	0.29
125	0.56	0.60	0.64	0.64	0.65	0.68	0.65	0.61	0.58	0.58	0.55	0.50	0.46	0.44	0.40	0.38	0.36	0.33	0.31
130	0.55	0.58	0.60	0.61	0.63	0.65	0.65	0.61	0.58	0.57	0.55	0.52	0.49	0.46	0.43	0.41	0.38	0.36	0.34
135	0.51	0.53	0.54	0.53	0.55	0.57	0.58	0.59	0.56	0.55	0.52	0.51	0.48	0.47	0.45	0.42	0.40	0.38	0.36
140	0.45	0.46	0.47	0.47	0.48	0.51	0.52	0.52	0.52	0.51	0.51	0.49	0.48	0.46	0.44	0.42	0.40	0.38	0.37
145	0.44	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.48	0.49	0.48	0.48	0.47	0.45	0.43	0.41	0.40	0.38	0.37
150	0.41	0.41	0.42	0.42	0.42	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.42	0.40	0.39	0.38	0.37
155	0.38	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.36	0.35
160	0.35	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33
165	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31
170	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29
175	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27
180	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light 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	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
5	70.7	71.3	72.0	72.6	73.2	73.8	74.4	75.0	75.5	76.0	76.5	76.9	77.2	77.5	77.8	78.0	78.1	78.1	78.0
10	70.8	72.2	73.5	74.8	76.2	77.4	78.7	79.9	81.1	82.2	83.1	84.0	84.8	85.4	85.9	86.3	86.5	86.7	86.4
15	71.0	73.0	75.1	77.2	79.2	81.3	83.3	85.1	86.7	88.1	89.3	90.5	91.5	92.3	93.0	93.5	93.9	94.0	93.7
20	69.6	72.4	75.3	78.3	81.4	84.2	86.8	89.3	91.6	93.5	95.3	97.0	98.4	99.7	101	101	102	102	102
25	68.1	71.7	75.3	79.2	82.7	86.0	89.4	92.7	95.9	99.1	102	104	106	108	109	110	110	111	110
30	66.7	71.0	75.4	79.7	83.8	88.0	92.2	96.5	101	104	107	108	109	109	110	110	110	111	110
35	63.9	69.0	74.3	79.3	84.5	90.0	95.5	100	103	104	106	109	112	115	117	119	120	120	119
40	61.0	67.0	72.8	78.8	85.1	90.9	95.9	99.0	101	107	113	118	124	128	132	134	135	135	135
45	58.2	64.9	71.3	78.3	85.7	89.4	94.2	100	108	116	124	132	139	145	149	152	154	153	152
50	53.9	61.2	68.7	76.1	83.3	87.2	96.3	107	118	128	138	147	156	164	171	175	177	176	176
55	49.5	57.3	65.9	72.2	80.6	89.7	102	116	129	142	157	171	182	195	205	212	216	214	213
60	45.1	53.4	62.6	68.1	80.1	93.7	110	127	145	163	183	203	220	236	251	262	267	266	264
65	38.0	45.5	53.4	60.2	74.7	92.8	117	141	164	185	208	233	254	270	287	298	304	305	301
70	30.6	36.9	42.9	49.7	62.3	78.0	99.9	129	163	200	222	241	258	281	293	306	313	314	310
75	23.1	28.0	32.4	38.2	48.2	61.0	79.0	103	130	159	190	221	200	180	216	217	215	232	218
80	15.5	18.9	21.7	26.0	32.9	41.9	54.8	71.5	90.5	111	132	146	92.8	19.8	22.5	5.05	4.78	3.92	5.44
85	7.88	9.57	11.0	13.2	16.8	21.4	28.1	36.8	46.5	56.8	67.6	70.3	32.1	2.77	0.39	0.12	0.09	0.05	0.11
90	0.18	0.17	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.18	0.19	0.19	0.17	0.16	0.14	0.12	0.04	0.00
95	0.19	0.18	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.17	0.19	0.19	0.18	0.16	0.15	0.13	0.12	0.00	0.00
100	0.21	0.20	0.19	0.18	0.17	0.16	0.16	0.16	0.17	0.18	0.19	0.19	0.18	0.17	0.14	0.12	0.10	0.00	0.00
105	0.23	0.21	0.20	0.19	0.18	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.20	0.17	0.15	0.12	0.11	0.09	0.00
110	0.25	0.23	0.21	0.21	0.19	0.18	0.18	0.18	0.18	0.19	0.19	0.18	0.16	0.14	0.11	0.09	0.07	0.00	0.00
115	0.26	0.25	0.23	0.22	0.20	0.19	0.19	0.18	0.18	0.19	0.19	0.18	0.16	0.12	0.09	0.07	0.05	0.00	0.00
120	0.28	0.27	0.25	0.24	0.22	0.21	0.21	0.21	0.20	0.19	0.19	0.18	0.16	0.13	0.09	0.06	0.04	0.00	0.00
125	0.30	0.29	0.28	0.27	0.25	0.24	0.24	0.23	0.22	0.20	0.19	0.17	0.16	0.14	0.11	0.07	0.05	0.00	0.01
130	0.32	0.31	0.31	0.29	0.28	0.27	0.26	0.25	0.23	0.21	0.20	0.19	0.16	0.14	0.12	0.10	0.08	0.01	0.02
135	0.34	0.33	0.33	0.32	0.30	0.28	0.27	0.25	0.24	0.22	0.21	0.19	0.17	0.15	0.13	0.11	0.09	0.03	0.03
140	0.35	0.33	0.33	0.32	0.30	0.29	0.27	0.26	0.24	0.23	0.21	0.19	0.17	0.15	0.13	0.12	0.10	0.04	0.04
145	0.35	0.34	0.33	0.31	0.31	0.29	0.28	0.26	0.25	0.23	0.21	0.19	0.18	0.16	0.15	0.13	0.12	0.06	0.06
150	0.35	0.34	0.33	0.31	0.30	0.29	0.27	0.26	0.25	0.23	0.21	0.20	0.18	0.17	0.15	0.14	0.13	0.07	0.07
155	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.24	0.23	0.22	0.21	0.19	0.18	0.17	0.16	0.15	0.09	0.09
160	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.18	0.17	0.11	0.11
165	0.30	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.12	0.13
170	0.28	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.20	0.15	0.15
175	0.27	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.17	0.17
180	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.20	0.20

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light 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	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
5	77.9	77.6	77.3	77.0	76.6	76.2	75.7	75.1	74.6	74.0	73.4	72.8	72.1	71.5	70.8	70.2	69.5	68.9	68.3
10	86.1	85.6	85.0	84.3	83.4	82.5	81.4	80.3	79.1	77.8	76.5	75.2	73.8	72.5	71.2	69.8	68.6	67.3	66.1
15	93.2	92.5	91.7	90.7	89.6	88.3	86.9	85.4	83.7	81.8	79.8	77.7	75.6	73.5	71.6	69.5	67.6	65.7	64.0
20	101	99.9	98.6	97.2	95.6	93.8	91.8	89.7	87.4	84.9	82.2	79.3	76.3	73.3	70.4	67.7	65.1	62.7	60.5
25	109	108	106	104	102	99.7	96.6	93.5	90.2	86.8	83.4	80.2	76.6	72.8	69.2	65.8	62.7	59.7	57.0
30	109	109	108	107	107	105	101	97.6	93.3	89.1	84.7	80.6	76.6	72.4	68.0	63.9	60.2	56.7	53.7
35	117	115	112	109	106	103	102	100	96.9	91.5	86.1	80.8	75.8	71.0	65.8	60.9	56.5	52.6	49.2
40	133	129	125	120	114	108	102	98.1	95.8	92.2	87.2	80.9	74.8	69.2	63.5	57.8	52.8	48.5	44.8
45	150	146	140	134	126	118	110	102	95.2	89.8	86.1	81.1	73.9	67.3	61.1	54.7	49.1	44.4	40.5
50	172	166	158	149	140	131	121	110	99.8	89.8	82.9	79.7	71.9	64.5	57.4	50.3	44.2	39.3	35.4
55	207	198	186	172	160	147	133	119	107	94.1	82.9	75.4	68.2	61.4	53.4	45.9	39.3	34.1	30.3
60	255	241	224	207	189	168	150	133	116	99.4	85.2	73.1	63.3	58.3	49.4	41.4	34.4	29.1	25.3
65	291	276	257	239	217	192	170	149	127	104	83.4	67.3	54.9	50.5	42.0	34.9	28.6	24.1	20.8
70	299	283	269	247	227	207	184	148	115	89.0	70.0	56.1	45.1	41.1	34.1	28.1	22.9	19.1	16.5
75	217	221	182	206	211	178	148	119	92.1	70.4	54.8	43.4	34.5	31.0	25.8	21.2	17.2	14.3	12.3
80	6.04	24.4	28.1	107	144	124	103	82.9	64.3	48.8	37.6	29.6	23.4	20.7	17.4	14.2	11.5	9.51	8.18
85	0.16	0.58	4.68	39.5	70.8	63.7	52.8	42.6	33.1	25.0	19.1	15.0	11.8	10.4	8.72	7.14	5.75	4.76	4.10
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.05
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.04	0.05	0.06
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.06	0.07
110	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.09	0.11
115	0.00	0.00	0.00	0.01	0.02	0.02	0.01	0.01	0.00	0.00	0.01	0.02	0.03	0.03	0.05	0.06	0.08	0.10	0.13
120	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.04	0.04	0.04	0.06	0.07	0.09	0.12	0.14
125	0.02	0.02	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.08	0.10	0.12	0.14	0.16
130	0.03	0.03	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.16	0.18
135	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.07	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.16	0.18	0.20
140	0.05	0.05	0.06	0.06	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.15	0.17	0.18	0.20
145	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.20
150	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.16	0.17	0.19	0.20
155	0.09	0.09	0.10	0.11	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.16	0.17	0.17	0.18	0.19	0.20
160	0.11	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.18	0.18	0.19	0.20	0.21
165	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
170	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.21
175	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20
180	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: E41383-WT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117003
MFR.: Maxim Light 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	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5				
5	67.7	67.1	66.6	66.1	65.6	65.2	64.8	64.4	64.1	63.9	63.7	63.5	63.4	63.3	63.3				
10	65.0	63.9	62.8	61.8	60.9	60.1	59.4	58.7	58.2	57.7	57.3	57.0	56.8	56.8	56.8				
15	62.3	60.7	59.2	57.9	56.6	55.4	54.4	53.5	52.7	52.1	51.5	51.1	50.9	50.8	50.8				
20	58.5	56.6	54.9	53.4	52.1	50.9	49.8	48.7	47.7	46.9	46.3	45.8	45.5	45.3	45.3				
25	54.6	52.4	50.4	48.6	47.1	45.8	44.7	43.9	43.2	42.3	41.5	40.9	40.5	40.4	40.4				
30	50.8	48.3	46.1	44.2	42.5	41.2	40.0	39.0	38.3	37.7	37.1	36.4	36.0	35.8	35.8				
35	46.3	43.7	41.6	39.8	38.4	36.9	35.6	34.6	33.8	33.2	32.8	32.4	31.9	31.6	31.6				
40	41.7	39.1	36.9	35.2	33.7	32.5	31.6	30.6	29.8	29.2	28.7	28.5	28.1	27.7	27.7				
45	37.3	34.6	32.6	30.8	29.4	28.3	27.4	26.7	26.2	25.5	25.0	24.7	24.6	24.2	24.1				
50	32.3	30.0	28.2	26.7	25.6	24.5	23.6	22.9	22.4	22.1	21.6	21.3	21.1	20.9	20.7				
55	27.5	25.4	23.8	22.5	21.6	20.8	20.2	19.6	19.1	18.7	18.5	18.1	17.9	17.9	17.6				
60	22.8	21.0	19.7	18.7	17.9	17.3	16.8	16.4	16.1	15.7	15.4	15.3	15.0	14.9	14.7				
65	18.7	17.1	16.0	15.1	14.5	14.1	13.7	13.4	13.2	13.0	12.8	12.5	12.4	12.2	12.1				
70	14.8	13.5	12.6	12.0	11.5	11.1	10.9	10.7	10.5	10.4	10.2	10.1	9.87	9.72	9.65				
75	11.0	10.1	9.38	8.89	8.52	8.25	8.06	7.94	7.88	7.90	7.85	7.73	7.63	7.44	7.32				
80	7.30	6.68	6.24	5.92	5.67	5.50	5.37	5.29	5.25	5.26	5.30	5.44	5.36	5.34	5.11				
85	3.66	3.37	3.15	3.00	2.89	2.81	2.76	2.72	2.71	2.71	2.73	2.79	2.64	2.39	2.20				
90	0.06	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.23	0.23				
95	0.08	0.10	0.13	0.15	0.17	0.20	0.22	0.24	0.27	0.29	0.31	0.34	0.37	0.40	0.42				
100	0.10	0.12	0.15	0.18	0.21	0.24	0.26	0.29	0.32	0.35	0.40	0.45	0.49	0.52	0.54				
105	0.12	0.14	0.18	0.20	0.24	0.27	0.30	0.34	0.37	0.41	0.46	0.49	0.53	0.54	0.54				
110	0.14	0.16	0.20	0.23	0.26	0.30	0.34	0.38	0.42	0.46	0.49	0.52	0.54	0.55	0.55				
115	0.15	0.18	0.22	0.25	0.29	0.32	0.37	0.41	0.46	0.49	0.52	0.55	0.57	0.57	0.57				
120	0.17	0.20	0.23	0.27	0.30	0.35	0.39	0.44	0.48	0.51	0.53	0.56	0.57	0.58	0.58				
125	0.18	0.22	0.25	0.28	0.32	0.36	0.40	0.43	0.46	0.50	0.52	0.55	0.56	0.57	0.58				
130	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.40	0.43	0.46	0.49	0.51	0.53	0.54	0.55				
135	0.21	0.24	0.26	0.28	0.30	0.33	0.35	0.37	0.39	0.41	0.43	0.45	0.46	0.47	0.48				
140	0.21	0.23	0.25	0.27	0.28	0.31	0.32	0.34	0.36	0.37	0.39	0.40	0.41	0.41	0.42				
145	0.21	0.23	0.24	0.25	0.27	0.28	0.30	0.32	0.33	0.34	0.36	0.36	0.37	0.37	0.37				
150	0.21	0.23	0.23	0.25	0.26	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.34				
155	0.21	0.22	0.24	0.24	0.25	0.26	0.28	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31				
160	0.22	0.23	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.29				
165	0.22	0.22	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26				
170	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24				
175	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22				
180	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20				

C Range: 0 - 360DEG
C Interval: 5.0DEG
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g Range: 0 - 180DEG
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