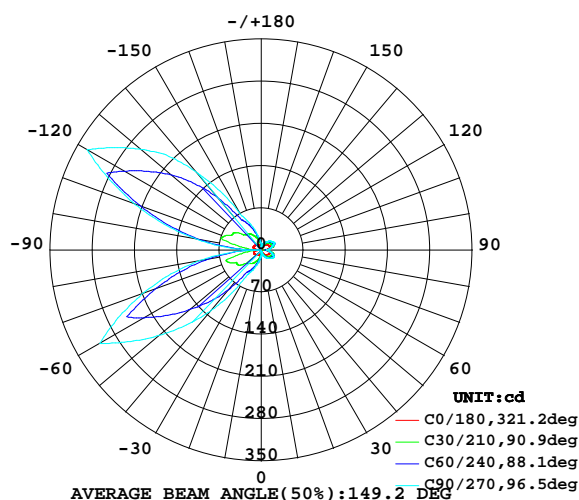


LUMINAIRE PHOTOMETRIC TEST REPORT

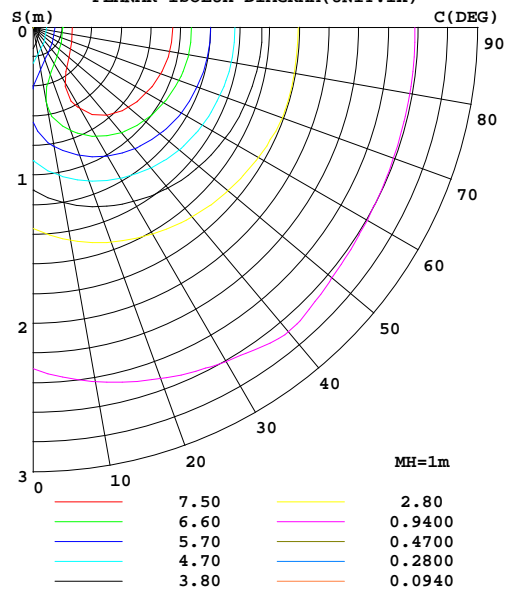
NAME: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 47.88 lm/W
MODEL	Bridgelux LED	Imax(cd)	333.6	S/MH(C0/180)	3.70	
NOMINAL POWER(W)	12	LOR(%)	56.3	S/MH(C90/270)	4.04	
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	608.10	h UP,DN(C0-180)	4.6,4.4	
NOMINAL FLUX(lm)	1080	CIE CLASS	DIFFUSE	h UP,DN(C180-360)	25.3,22.0	
LAMPS INSIDE	1	h up(%)	29.9	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	11.9	h down(%)	26.4	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: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	3.264	4.280	4.635	4.618	3.757	7.680	8.918	7.285	0- 5	0.1117	0.1117	0.02,0.01
10	4.309	6.006	6.507	6.393	4.933	12.53	15.07	11.99	5- 10	0.5268	0.6385	0.10,0.06
15	5.463	7.672	8.379	8.048	6.148	17.24	21.23	16.58	10- 15	1.221	1.860	0.31,0.17
20	6.651	9.262	10.45	9.614	7.364	21.83	30.13	21.07	15- 20	2.211	4.071	0.67,0.38
25	7.844	11.10	12.51	11.46	8.547	27.56	39.04	26.04	20- 25	3.540	7.611	1.25,0.70
30	8.996	12.94	14.58	13.28	9.671	32.61	47.95	30.21	25- 30	5.137	12.75	2.1,1.18
35	10.07	14.69	16.43	14.99	10.71	36.61	90.58	33.65	30- 35	7.444	20.19	3.32,1.87
40	11.07	16.33	18.28	16.58	11.66	43.15	133.2	39.96	35- 40	11.36	31.55	5.19,2.92
45	11.99	17.83	20.13	17.99	12.50	66.49	175.8	60.04	40- 45	16.36	47.91	7.88,4.44
50	12.83	19.23	21.58	19.28	13.17	85.70	220.5	74.65	45- 50	22.08	70.00	11.5,6.48
55	13.59	20.51	23.04	20.43	13.71	101.8	265.1	85.21	50- 55	28.36	98.36	16.2,9.11
60	14.24	21.40	24.49	21.18	14.13	127.1	309.8	107.6	55- 60	35.08	133.4	21.9,12.4
65	14.76	22.22	21.83	21.84	14.49	150.7	258.2	127.2	60- 65	39.61	173.1	28.5,16
70	15.07	21.02	19.18	20.57	14.57	143.6	206.6	119.7	65- 70	37.45	210.5	34.6,19.5
75	14.98	17.20	16.52	16.84	13.91	102.3	155.1	84.28	70- 75	31.37	241.9	39.8,22.4
80	12.90	13.29	13.86	13.02	9.540	65.60	103.5	53.64	75- 80	23.27	265.1	43.6,24.6
85	5.660	9.331	11.20	9.158	3.534	32.18	51.93	26.15	80- 85	14.53	279.7	46,25.9
90	0.1858	5.352	8.543	5.289	0.3942	0.3865	0.3592	0.2626	85- 90	5.730	285.4	46.9,26.4
95	3.085	9.380	11.33	9.283	5.042	37.73	55.87	29.16	90- 95	6.119	291.5	47.9,27
100	9.114	13.40	14.11	13.27	8.844	77.01	111.4	60.11	95-100	15.63	307.1	50.5,28.4
105	14.37	17.38	16.89	17.21	13.81	119.9	166.9	95.10	100-105	25.25	332.4	54.7,30.8
110	15.38	21.29	19.68	21.06	14.79	167.6	222.4	135.6	105-110	34.12	366.5	60.3,33.9
115	15.41	22.68	22.46	22.35	14.81	167.2	277.9	145.9	110-115	40.60	407.1	66.9,37.7
120	15.08	22.11	25.25	21.65	14.53	129.1	333.4	127.5	115-120	43.59	450.7	74.1,41.7
125	14.55	21.46	23.91	20.90	14.12	125.8	296.8	108.0	120-125	39.27	490.0	80.6,45.4
130	13.88	20.30	22.58	19.73	13.59	109.9	260.2	94.85	125-130	32.85	522.8	86,48.4
135	13.13	19.00	21.25	18.43	12.92	84.53	223.6	74.97	130-135	26.61	549.4	90.4,50.9
140	12.30	17.59	19.39	17.01	12.08	55.09	171.4	48.94	135-140	19.99	569.4	93.6,52.7
145	11.38	16.03	17.54	15.40	11.09	46.94	119.2	41.80	140-145	13.91	583.3	95.9,54
150	10.39	14.33	15.68	13.67	9.995	41.60	67.05	38.14	145-150	9.171	592.5	97.4,54.9
155	9.308	12.52	13.61	11.85	8.815	34.66	53.61	32.96	150-155	6.335	598.8	98.5,55.4
160	8.154	10.69	11.54	10.03	7.567	26.68	40.17	26.39	155-160	4.332	603.2	99.2,55.8
165	6.952	9.086	9.470	8.478	6.301	21.03	26.73	21.03	160-165	2.672	605.8	99.6,56.1
170	5.738	7.365	7.563	6.782	5.071	15.14	19.10	15.44	165-170	1.474	607.3	99.9,56.2
175	4.587	5.556	5.656	5.083	3.972	9.247	11.46	9.679	170-175	0.6439	608.0	100,56.3
180	3.750	3.750	3.750	3.750	3.826	3.826	3.826	3.826	175-180	0.1420	608.1	100,56.3
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

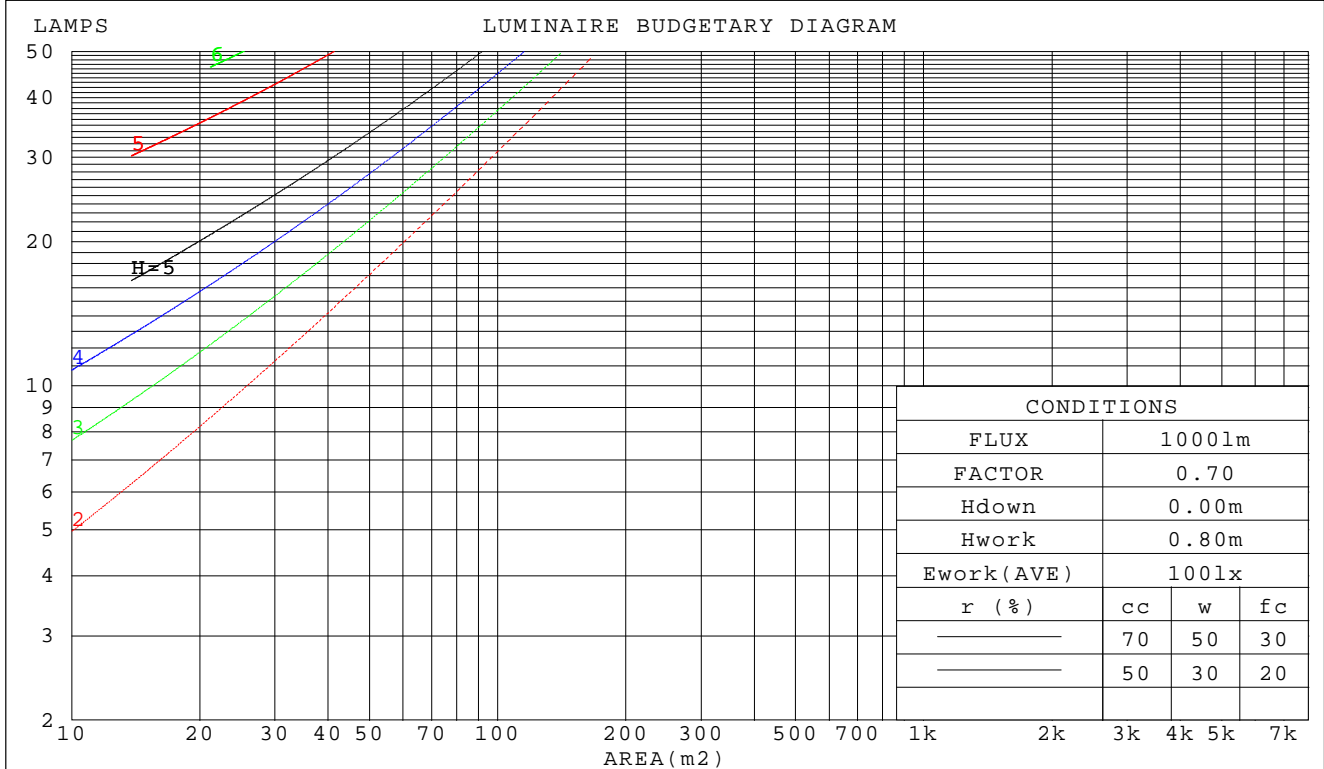
g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.172m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
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	.203 .116 .037	.190 .108 .034	.166 .095 .030	.143 .082 .026	.122 .071 .023	
2.0	.183 .100 .031	.171 .094 .029	.148 .082 .026	.127 .072 .022	.108 .061 .019	
3.0	.164 .087 .026	.153 .082 .025	.133 .072 .022	.114 .062 .019	.096 .053 .016	
4.0	.148 .077 .023	.138 .072 .021	.120 .063 .019	.102 .055 .017	.086 .046 .014	
5.0	.135 .069 .020	.126 .065 .019	.108 .056 .017	.092 .049 .014	.077 .041 .012	
6.0	.124 .062 .018	.115 .058 .017	.099 .051 .015	.084 .044 .013	.070 .037 .011	
7.0	.114 .056 .016	.106 .053 .015	.091 .046 .013	.077 .039 .011	.064 .033 .010	
8.0	.105 .051 .014	.098 .048 .014	.084 .042 .012	.071 .036 .010	.059 .030 .009	
9.0	.098 .047 .013	.091 .044 .012	.078 .039 .011	.066 .033 .009	.054 .028 .008	
10.0	.091 .044 .012	.085 .041 .011	.073 .036 .010	.062 .031 .009	.051 .026 .007	

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	.335 .335 .335	.286 .286 .286	.195 .195 .195	.112 .112 .112	.036 .036 .036	
1.0	.333 .317 .303	.285 .272 .261	.195 .187 .180	.112 .108 .105	.036 .035 .034	
2.0	.330 .305 .284	.283 .263 .246	.194 .182 .171	.112 .106 .100	.036 .034 .033	
3.0	.327 .297 .272	.281 .256 .236	.193 .178 .166	.111 .104 .098	.036 .034 .032	
4.0	.324 .290 .265	.278 .251 .230	.191 .175 .162	.110 .102 .096	.036 .033 .032	
5.0	.320 .285 .260	.275 .247 .226	.189 .172 .160	.110 .101 .095	.035 .033 .031	
6.0	.316 .281 .256	.272 .244 .223	.187 .171 .158	.109 .100 .094	.035 .033 .031	
7.0	.312 .278 .254	.269 .241 .221	.186 .169 .157	.108 .100 .093	.035 .033 .031	
8.0	.309 .275 .252	.266 .239 .220	.184 .168 .156	.107 .099 .093	.035 .032 .031	
9.0	.305 .273 .251	.263 .237 .219	.182 .166 .155	.106 .098 .093	.034 .032 .031	
10.0	.302 .270 .249	.261 .235 .218	.181 .165 .155	.105 .098 .092	.034 .032 .031	

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: E41049-BZ					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:161117002				
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	5.9	6.9	6.8	7.9	9.1	7.9	8.9	8.7	9.8	11.1				
3H	9.1	10.0	10.0	11.0	12.2	10.5	11.4	11.4	12.4	13.6				
4H	10.8	11.7	11.7	12.6	13.9	11.7	12.6	12.6	13.6	14.8				
6H	12.4	13.3	13.4	14.2	15.5	12.9	13.8	13.9	14.7	16.0				
8H	13.0	13.8	13.9	14.8	16.0	13.6	14.4	14.5	15.3	16.6				
12H	13.2	14.0	14.2	15.0	16.3	14.3	15.0	15.2	16.0	17.3				
4H 2H	7.5	8.4	8.4	9.4	10.6	8.7	9.6	9.6	10.6	11.8				
3H	10.7	11.5	11.7	12.5	13.8	11.4	12.2	12.4	13.2	14.5				
4H	12.5	13.2	13.5	14.2	15.5	12.8	13.5	13.7	14.5	15.8				
6H	14.2	14.8	15.2	15.8	17.1	14.1	14.8	15.1	15.8	17.1				
8H	14.7	15.3	15.7	16.3	17.7	14.8	15.4	15.8	16.4	17.8				
12H	15.0	15.6	16.1	16.6	17.9	15.6	16.2	16.6	17.2	18.5				
8H 4H	13.1	13.6	14.1	14.7	16.0	13.3	13.8	14.3	14.9	16.2				
6H	15.0	15.4	16.0	16.5	17.8	14.8	15.3	15.8	16.3	17.7				
8H	15.7	16.1	16.8	17.2	18.6	15.7	16.1	16.7	17.2	18.5				
12H	16.2	16.6	17.3	17.6	19.0	16.7	17.0	17.7	18.1	19.5				
12H 4H	13.1	13.7	14.1	14.7	16.0	13.4	13.9	14.4	14.9	16.3				
6H	15.1	15.5	16.1	16.6	17.9	15.0	15.4	16.0	16.5	17.8				
8H	16.0	16.3	17.0	17.4	18.8	15.9	16.3	17.0	17.4	18.7				
Variations with the observer position at spacings:														
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1								
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2								
2.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.5								

CIE Pub.117 Corrected 1080 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.3)

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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:

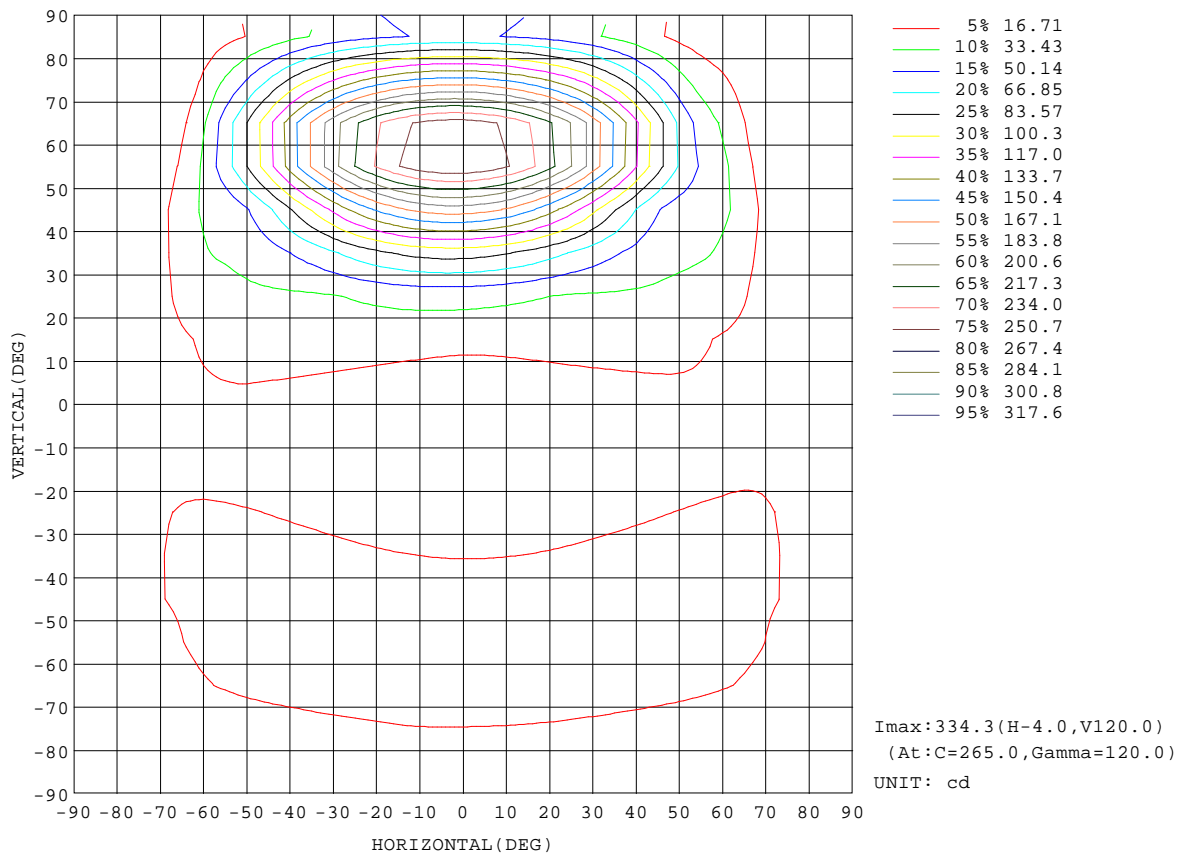
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	19	11	7	17	11	7	15	10	6	2
0.80	24	16	11	22	15	10	19	13	9	3
1.00	28	20	15	26	19	14	22	17	12	5
1.25	32	25	19	30	23	18	25	20	16	7
1.50	36	28	23	33	26	21	28	22	18	9
2.00	41	34	29	37	31	27	31	26	23	12
2.50	44	37	33	40	35	30	33	29	26	14
3.00	46	41	36	42	37	33	35	32	29	16
4.00	49	45	41	45	41	38	38	35	32	18
5.00	51	47	44	47	44	41	39	37	34	19
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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:

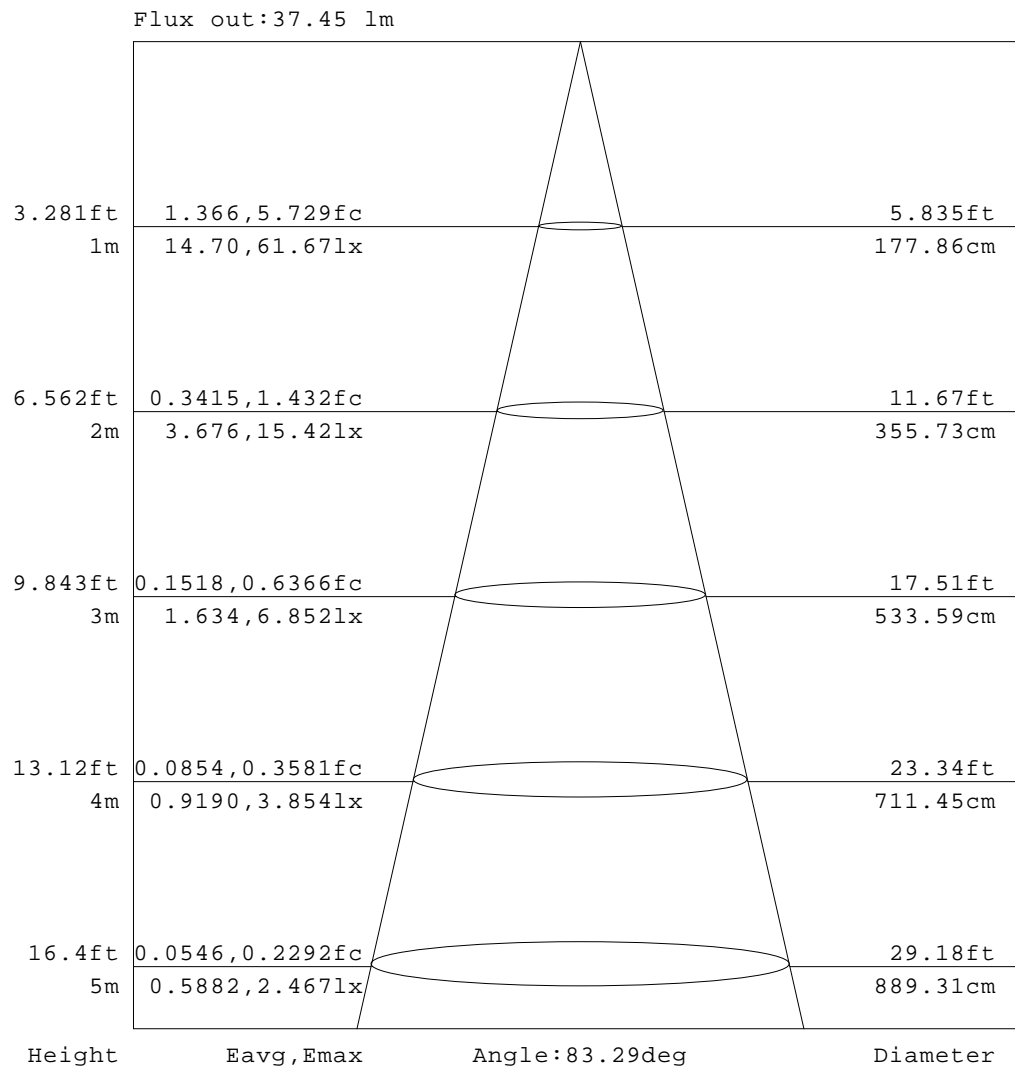


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:LCZ
Test Date:2016-11-17

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:

AAI Figure

NAME: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:



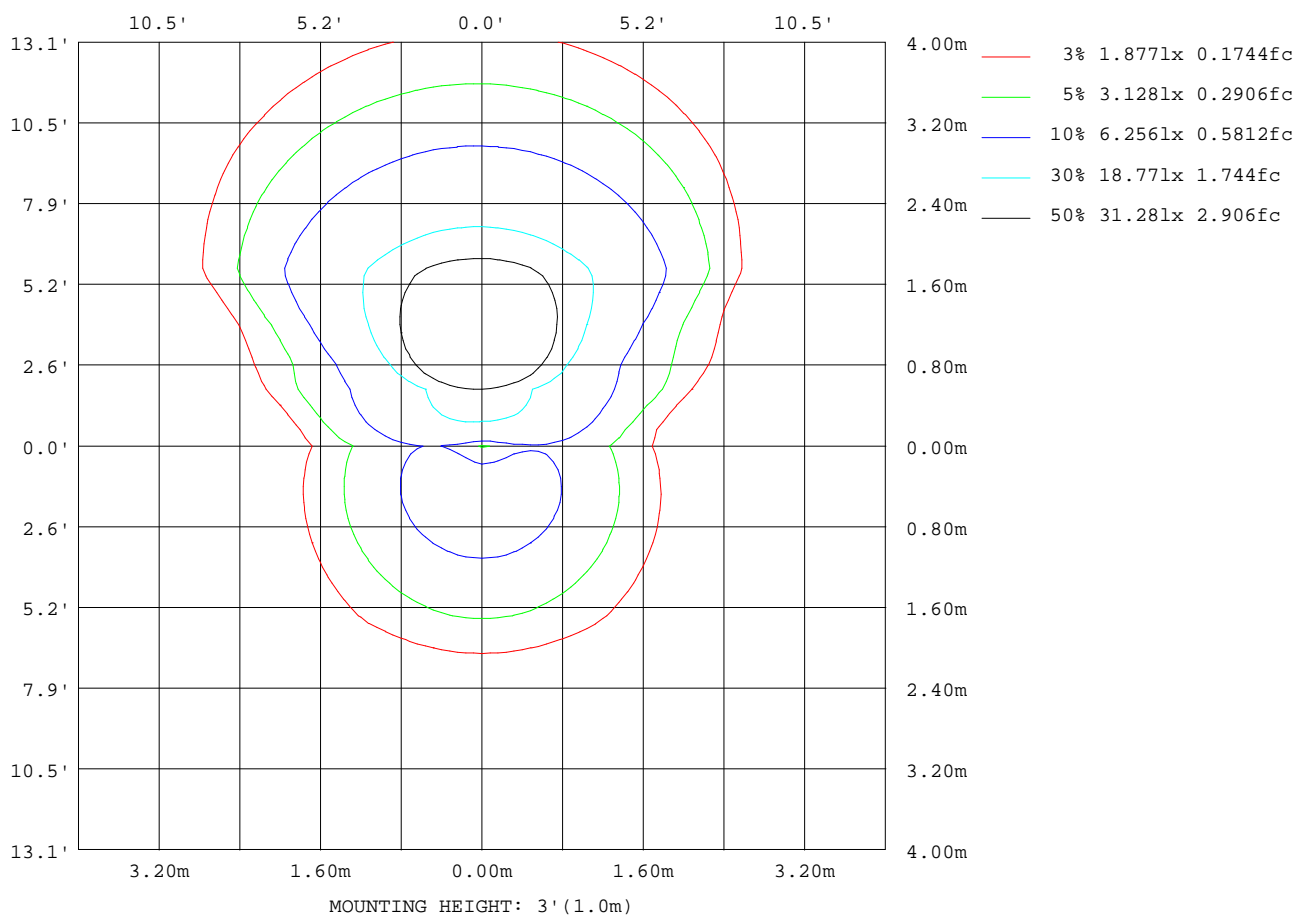
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

ISOLUX DIAGRAM

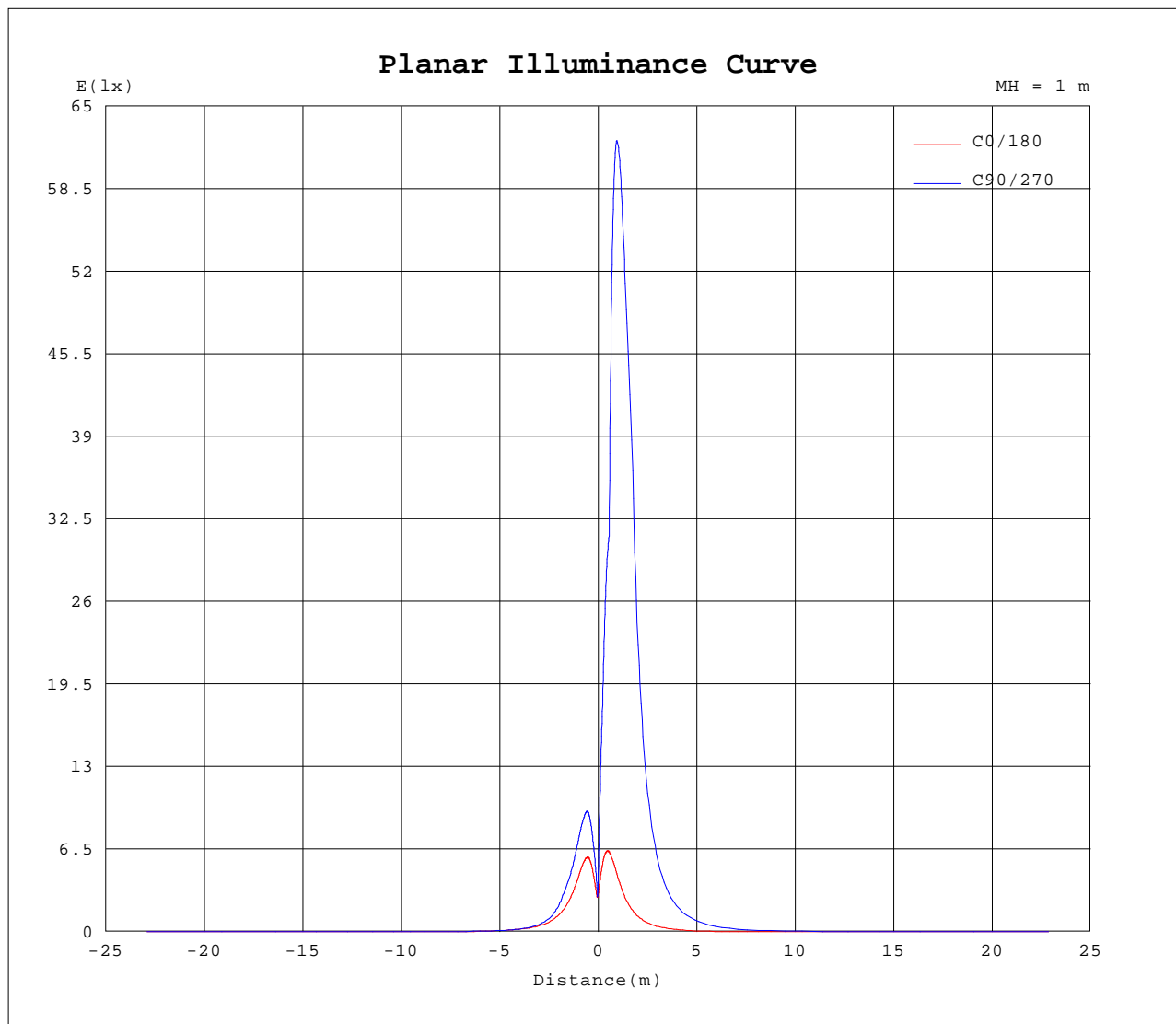
NAME: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
MFR.: Maxim Light International Inc	SUR.:	PROTECTION ANGLE:



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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
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	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
5	3.26	3.41	3.55	3.69	3.81	3.92	4.03	4.12	4.21	4.28	4.34	4.40	4.44	4.47	4.51	4.55	4.58	4.62	4.64
10	4.31	4.57	4.81	5.04	5.24	5.43	5.60	5.75	5.89	6.01	6.11	6.20	6.28	6.35	6.39	6.43	6.45	6.48	6.51
15	5.46	5.82	6.14	6.44	6.71	6.95	7.16	7.35	7.53	7.67	7.80	7.90	8.00	8.10	8.18	8.27	8.32	8.36	8.38
20	6.65	7.08	7.48	7.84	8.16	8.44	8.69	8.91	9.10	9.26	9.46	9.68	9.86	10.0	10.2	10.3	10.4	10.4	10.4
25	7.84	8.35	8.81	9.22	9.59	9.91	10.2	10.4	10.8	11.1	11.4	11.6	11.9	12.0	12.2	12.3	12.4	12.5	12.5
30	9.00	9.58	10.1	10.6	11.0	11.3	11.7	12.2	12.6	12.9	13.3	13.5	13.8	14.0	14.2	14.3	14.4	14.5	14.6
35	10.1	10.7	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.7	15.1	15.4	15.6	15.9	16.1	16.2	16.3	16.4	16.4
40	11.1	11.8	12.5	13.0	13.6	14.2	14.8	15.4	15.9	16.3	16.7	17.1	17.4	17.6	17.9	18.0	18.2	18.2	18.3
45	12.0	12.8	13.5	14.2	14.9	15.6	16.2	16.8	17.3	17.8	18.3	18.7	19.0	19.3	19.6	19.8	20.0	20.1	20.1
50	12.8	13.7	14.5	15.2	16.0	16.7	17.4	18.0	18.7	19.2	19.8	20.3	20.6	20.9	21.1	21.3	21.5	21.6	21.6
55	13.6	14.5	15.4	16.2	17.0	17.7	18.5	19.2	19.9	20.5	21.0	21.4	21.8	22.2	22.5	22.8	22.9	23.0	23.0
60	14.2	15.2	16.1	17.0	17.8	18.6	19.4	20.1	20.8	21.4	22.0	22.5	23.0	23.5	23.8	24.1	24.4	24.5	24.5
65	14.8	15.8	16.7	17.6	18.4	19.3	20.1	20.8	21.5	22.2	22.9	23.3	22.8	22.5	22.2	22.1	21.9	21.9	21.8
70	15.1	16.2	17.1	18.0	18.9	19.6	20.4	21.3	21.8	21.0	20.4	20.0	19.7	19.5	19.4	19.3	19.2	19.2	19.2
75	15.0	16.1	17.0	17.9	18.6	19.5	19.5	18.5	17.8	17.2	16.8	16.6	16.5	16.4	16.4	16.4	16.5	16.5	16.5
80	12.9	13.9	14.7	15.0	16.1	15.3	14.5	14.0	13.6	13.3	13.2	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9
85	5.66	4.96	6.72	7.69	8.96	9.36	9.28	9.24	9.29	9.33	9.47	9.72	10.0	10.3	10.6	10.8	11.0	11.1	11.2
90	0.19	1.02	0.29	0.34	1.89	3.31	3.97	4.48	4.98	5.35	5.76	6.27	6.76	7.24	7.67	7.95	8.26	8.39	8.54
95	3.08	3.82	4.44	5.32	6.79	8.21	8.93	9.13	9.29	9.38	9.54	9.81	10.1	10.4	10.7	10.9	11.1	11.2	11.3
100	9.11	9.85	10.7	11.2	12.3	13.5	14.0	13.8	13.6	13.4	13.3	13.4	13.4	13.6	13.7	13.8	14.0	14.0	14.1
105	14.4	15.2	15.9	17.1	16.9	18.4	19.0	18.4	17.8	17.4	17.1	16.9	16.8	16.8	16.8	16.8	16.8	16.9	16.9
110	15.4	16.3	17.2	18.0	19.0	19.6	20.4	21.3	22.0	21.3	20.8	20.4	20.1	19.9	19.8	19.7	19.7	19.7	19.7
115	15.4	16.3	17.1	18.1	18.9	19.8	20.5	21.2	21.9	22.7	23.4	23.8	23.3	23.0	22.8	22.6	22.6	22.5	22.5
120	15.1	16.0	16.8	17.6	18.5	19.3	20.1	20.9	21.5	22.1	22.7	23.2	23.7	24.1	24.5	24.8	25.1	25.2	25.2
125	14.5	15.4	16.2	17.0	17.8	18.6	19.3	20.1	20.8	21.5	21.9	22.3	22.7	23.1	23.4	23.6	23.8	23.9	23.9
130	13.9	14.7	15.5	16.2	17.0	17.7	18.4	19.1	19.7	20.3	20.8	21.3	21.7	21.9	22.2	22.4	22.5	22.6	22.6
135	13.1	13.9	14.6	15.3	16.0	16.7	17.3	18.0	18.5	19.0	19.5	19.9	20.2	20.5	20.8	21.0	21.2	21.3	21.2
140	12.3	13.0	13.7	14.2	14.8	15.5	16.1	16.6	17.1	17.6	18.0	18.3	18.6	18.9	19.1	19.2	19.4	19.4	19.4
145	11.4	12.0	12.6	13.1	13.6	14.1	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.2	17.3	17.5	17.5	17.6	17.5
150	10.4	11.0	11.5	11.9	12.4	12.7	13.1	13.6	14.0	14.3	14.6	14.9	15.2	15.3	15.5	15.6	15.7	15.7	15.7
155	9.31	9.81	10.3	10.7	11.0	11.4	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.5	13.6	13.6	13.7	13.6
160	8.15	8.58	8.97	9.32	9.63	9.91	10.1	10.4	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.5	11.6	11.6	11.5
165	6.95	7.30	7.62	7.91	8.17	8.40	8.61	8.79	8.95	9.09	9.20	9.29	9.36	9.42	9.47	9.50	9.51	9.50	9.47
170	5.74	6.00	6.24	6.46	6.66	6.84	7.00	7.14	7.26	7.37	7.45	7.52	7.58	7.62	7.64	7.64	7.63	7.60	7.56
175	4.59	4.73	4.87	5.00	5.12	5.23	5.33	5.41	5.49	5.56	5.61	5.65	5.68	5.70	5.71	5.71	5.70	5.68	5.66
180	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75

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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
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	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
5	4.67	4.69	4.71	4.72	4.72	4.71	4.69	4.66	4.62	4.56	4.50	4.43	4.34	4.24	4.14	4.02	3.89	3.76	4.27
10	6.54	6.56	6.57	6.58	6.57	6.55	6.51	6.46	6.39	6.31	6.20	6.08	5.93	5.77	5.59	5.39	5.17	4.93	5.93
15	8.36	8.35	8.33	8.31	8.29	8.25	8.20	8.13	8.05	7.94	7.81	7.66	7.47	7.27	7.03	6.77	6.47	6.15	7.60
20	10.4	10.4	10.4	10.3	10.2	10.1	9.96	9.77	9.61	9.50	9.36	9.18	8.97	8.73	8.44	8.12	7.76	7.36	9.25
25	12.5	12.5	12.4	12.4	12.2	12.1	11.9	11.7	11.5	11.2	10.8	10.6	10.4	10.1	9.81	9.44	9.02	8.55	10.9
30	14.6	14.5	14.5	14.4	14.2	14.0	13.8	13.6	13.3	12.9	12.6	12.1	11.8	11.5	11.1	10.7	10.2	9.67	12.4
35	16.4	16.4	16.3	16.2	16.0	15.9	15.6	15.3	15.0	14.6	14.2	13.7	13.2	12.7	12.3	11.8	11.3	10.7	13.8
40	18.3	18.2	18.1	17.9	17.8	17.5	17.3	16.9	16.6	16.2	15.7	15.1	14.6	14.0	13.4	12.9	12.3	11.7	15.1
45	20.1	20.0	19.9	19.7	19.4	19.1	18.8	18.4	18.0	17.5	17.0	16.4	15.8	15.1	14.5	13.9	13.2	12.5	16.4
50	21.5	21.5	21.3	21.1	20.9	20.6	20.3	19.8	19.3	18.7	18.1	17.6	16.9	16.2	15.4	14.7	14.0	13.2	17.5
55	23.0	22.9	22.7	22.4	22.1	21.8	21.3	20.9	20.4	19.8	19.1	18.5	17.8	17.0	16.3	15.5	14.6	13.7	17.7
60	24.4	24.3	24.0	23.7	23.3	22.8	22.3	21.8	21.2	20.6	20.0	19.2	18.4	17.7	16.9	16.1	15.2	14.1	16.7
65	21.9	21.9	22.0	22.1	22.3	22.6	23.0	22.6	21.8	21.1	20.4	19.7	18.9	18.1	17.4	16.5	15.6	14.5	15.2
70	19.2	19.3	19.3	19.3	19.3	19.5	19.7	20.1	20.6	21.2	20.6	19.7	18.9	18.3	17.4	16.7	15.8	14.6	14.3
75	16.5	16.6	16.5	16.4	16.3	16.3	16.4	16.5	16.8	17.3	17.9	18.5	18.2	16.8	16.7	15.8	15.1	13.9	13.5
80	13.9	13.9	13.8	13.5	13.3	13.1	13.0	12.9	13.0	13.2	13.4	13.7	13.7	12.6	11.3	10.5	10.3	9.54	9.43
85	11.2	11.3	11.0	10.6	10.2	9.88	9.58	9.28	9.16	9.12	8.93	8.75	8.18	6.75	5.23	3.61	2.45	3.53	3.64
90	8.57	8.60	8.28	7.74	7.20	6.67	6.18	5.64	5.29	4.99	4.41	3.82	3.01	1.48	0.54	0.50	0.66	0.39	0.74
95	11.3	11.4	11.2	10.7	10.3	9.99	9.70	9.39	9.28	9.26	9.12	9.08	9.04	8.27	7.68	7.71	7.45	5.04	5.79
100	14.1	14.2	14.0	13.8	13.5	13.3	13.2	13.1	13.3	13.5	13.8	14.3	15.0	15.4	14.5	14.2	13.5	8.84	11.4
105	16.9	17.0	16.9	16.8	16.6	16.6	16.7	16.9	17.2	17.7	18.4	19.3	19.2	18.2	17.5	16.6	15.7	13.8	11.3
110	19.7	19.8	19.8	19.8	19.8	19.9	20.2	20.5	21.1	21.8	21.2	20.3	19.4	18.7	17.7	16.8	15.9	14.8	13.6
115	22.5	22.6	22.6	22.7	22.9	23.1	23.6	23.1	22.4	21.6	20.8	20.1	19.2	18.3	17.5	16.5	15.6	14.8	16.2
120	25.2	25.0	24.8	24.4	24.0	23.5	22.9	22.3	21.6	21.0	20.3	19.5	18.6	17.8	16.9	16.0	15.2	14.5	18.2
125	23.9	23.7	23.5	23.2	22.9	22.4	22.0	21.5	20.9	20.2	19.4	18.7	17.9	17.1	16.2	15.4	14.7	14.1	19.1
130	22.5	22.4	22.2	22.0	21.7	21.4	20.9	20.4	19.7	19.1	18.4	17.7	17.0	16.2	15.4	14.7	14.1	13.6	18.5
135	21.2	21.0	20.8	20.6	20.2	19.9	19.4	19.0	18.4	17.9	17.3	16.6	15.9	15.1	14.4	13.9	13.4	12.9	17.4
140	19.3	19.2	19.0	18.8	18.6	18.2	17.9	17.5	17.0	16.5	15.9	15.3	14.6	13.9	13.4	13.0	12.5	12.1	16.2
145	17.5	17.4	17.2	17.1	16.8	16.6	16.3	15.8	15.4	14.9	14.4	13.8	13.2	12.8	12.4	11.9	11.5	11.1	14.8
150	15.6	15.5	15.4	15.2	15.0	14.7	14.4	14.1	13.7	13.2	12.8	12.3	11.9	11.6	11.2	10.8	10.3	10.00	13.3
155	13.5	13.4	13.3	13.2	13.0	12.8	12.5	12.2	11.8	11.5	11.1	10.8	10.6	10.3	9.92	9.54	9.12	8.81	11.7
160	11.5	11.4	11.2	11.1	11.0	10.8	10.5	10.3	10.0	9.84	9.64	9.41	9.16	8.88	8.57	8.23	7.85	7.57	9.98
165	9.40	9.31	9.20	9.09	9.00	8.89	8.77	8.63	8.48	8.31	8.12	7.92	7.69	7.44	7.17	6.87	6.55	6.30	8.18
170	7.52	7.45	7.38	7.29	7.19	7.09	7.00	6.90	6.78	6.65	6.50	6.34	6.16	5.96	5.74	5.51	5.26	5.07	6.37
175	5.63	5.60	5.55	5.50	5.43	5.36	5.27	5.18	5.08	4.98	4.86	4.75	4.63	4.50	4.36	4.22	4.07	3.97	4.64
180	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83	3.83

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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
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	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
5	4.77	5.26	5.73	6.17	6.59	6.99	7.35	7.68	7.98	8.23	8.45	8.63	8.77	8.87	8.92	8.94	8.92	8.88	8.79
10	6.90	7.84	8.74	9.60	10.4	11.2	11.9	12.5	13.1	13.6	14.1	14.4	14.7	14.9	15.0	15.1	15.1	15.0	14.9
15	9.01	10.4	11.7	13.0	14.1	15.3	16.3	17.2	18.1	18.9	19.5	20.1	20.5	20.9	21.1	21.2	21.2	21.1	20.9
20	11.1	12.9	14.6	16.2	17.8	19.2	20.6	21.8	23.3	24.8	26.3	27.5	28.6	29.3	29.9	30.1	30.1	29.9	29.3
25	13.1	15.3	17.4	19.4	21.3	23.1	25.3	27.6	29.7	31.8	33.8	35.5	36.9	38.0	38.8	39.1	39.0	38.6	37.7
30	15.0	17.6	20.0	22.4	24.8	27.3	29.9	32.6	35.4	38.1	40.7	43.1	45.0	46.5	47.6	48.1	47.9	47.2	46.0
35	16.8	19.7	22.5	25.1	27.7	30.4	33.4	36.6	40.0	43.5	46.5	49.4	51.9	54.5	56.9	59.0	60.6	61.8	62.6
40	18.5	21.8	24.8	27.3	29.9	32.8	36.0	39.3	42.7	46.1	49.4	52.6	55.5	58.1	60.4	62.3	63.8	64.9	65.6
45	20.2	23.9	26.8	29.5	32.1	34.8	37.6	40.5	43.4	46.2	48.9	51.5	53.9	56.1	58.0	59.6	60.8	61.6	62.1
50	21.7	25.6	28.8	31.8	34.6	37.3	39.9	42.6	45.3	47.9	50.4	52.8	55.0	56.9	58.5	59.8	60.8	61.5	61.9
55	22.1	26.8	30.8	35.1	39.4	43.6	47.7	51.7	55.6	59.3	62.8	66.1	69.1	71.8	74.1	75.9	77.2	78.0	78.4
60	20.9	27.8	33.0	38.0	42.9	47.5	51.9	56.1	60.1	63.8	67.2	70.3	73.0	75.3	77.1	78.4	79.2	79.5	79.3
65	19.4	27.6	34.0	38.4	42.9	47.0	51.1	55.0	58.7	62.2	65.5	68.6	71.3	73.6	75.4	76.7	77.5	77.8	77.5
70	16.4	22.6	30.9	40.4	49.6	58.9	68.1	77.1	85.8	94.1	102.0	109.5	116.5	123.0	129.0	134.5	139.5	144.0	148.0
75	13.2	15.3	20.6	31.6	44.4	59.1	75.4	93.0	111.7	131.3	151.7	172.6	193.9	215.5	237.2	258.9	280.5	302.0	323.4
80	9.00	8.57	9.90	17.4	30.2	43.9	58.4	73.5	89.0	104.9	121.1	137.5	154.0	170.5	187.0	203.4	219.7	235.9	252.0
85	3.79	4.32	4.72	7.59	13.7	21.0	29.6	38.5	47.5	56.4	65.1	73.6	81.7	89.4	96.6	103.3	109.5	115.2	120.4
90	0.89	0.88	0.87	0.82	0.75	0.63	0.46	0.39	0.38	0.40	0.39	0.44	0.36	0.36	0.38	0.36	0.36	0.35	0.32
95	5.97	5.94	6.89	9.32	16.2	23.7	30.8	37.7	43.4	48.4	52.8	56.6	59.7	62.1	63.8	64.9	65.5	65.5	64.9
100	11.6	11.6	14.7	20.8	36.1	49.7	63.7	77.0	87.5	97.3	104	109	112	113	113	112	111	111	110
105	13.1	18.8	24.9	37.7	63.1	81.8	101	120	132	143	157	164	168	169	168	167	166	166	165
110	16.8	25.2	35.8	44.6	67.1	104	146	168	187	202	212	220	225	226	225	224	222	221	220
115	21.6	30.9	44.0	51.8	75.5	102.6	134	167	196	220	238	252	262	268	271	270	268	266	264
120	22.9	27.3	34.2	37.6	54.9	78.8	101.1	129	169	230	263	290	310	323	330	334	333	330	324
125	24.3	26.6	25.4	35.6	51.0	66.9	71.1	126	165	198	228	253	271	285	293	297	297	294	287
130	23.3	27.2	30.3	33.4	40.1	50.4	62.8	110	138	167	194	216	234	247	255	260	260	257	250
135	21.8	26.1	29.8	33.3	36.9	41.0	46.3	84.5	109	133	156	176	194	207	217	222	224	220	213
140	20.2	24.2	27.9	31.3	35.1	39.5	44.8	55.1	75.8	95.9	115	132	146	158	166	170	171	169	162
145	18.5	22.1	25.6	29.1	32.9	37.2	41.9	46.9	52.3	58.0	62.7	66.7	69.5	70.8	71.4	71.8	71.9	71.7	71.2
150	16.6	19.8	22.9	26.0	29.4	33.2	37.3	41.6	46.0	50.4	54.6	58.4	61.6	64.2	66.0	67.0	67.0	66.0	64.1
155	14.6	17.3	20.0	22.7	25.2	27.6	31.1	34.7	38.1	41.5	44.6	47.3	49.7	51.5	52.8	53.5	53.6	53.0	51.7
160	12.3	14.7	16.9	19.1	21.1	23.1	25.0	26.7	28.8	31.4	33.6	35.6	37.3	38.6	39.5	40.1	40.2	39.8	39.1
165	10.0	11.8	13.5	15.2	16.8	18.3	19.7	21.0	22.2	23.3	24.2	25.0	25.6	26.1	26.5	26.7	26.7	26.7	26.4
170	7.64	8.87	10.1	11.2	12.3	13.3	14.3	15.1	15.9	16.6	17.2	17.8	18.2	18.6	18.9	19.0	19.1	19.1	19.0
175	5.29	5.93	6.55	7.15	7.72	8.26	8.77	9.25	9.68	10.1	10.4	10.7	11.0	11.2	11.3	11.4	11.5	11.5	11.4
180	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83

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: E41049-BZ	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:161117002
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	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76				
5	8.68	8.52	8.33	8.13	7.88	7.60	7.28	6.94	6.56	6.15	5.72	5.26	4.78	4.29	3.78				
10	14.7	14.4	14.0	13.6	13.1	12.6	12.0	11.3	10.6	9.82	8.99	8.12	7.22	6.27	5.30				
15	20.6	20.1	19.6	19.0	18.3	17.5	16.6	15.6	14.6	13.4	12.2	11.0	9.68	8.31	6.91				
20	28.6	27.6	26.5	25.2	23.9	22.4	21.1	19.8	18.5	17.0	15.5	13.8	12.1	10.4	8.53				
25	36.6	35.2	33.5	31.7	29.9	27.9	26.0	24.1	22.3	20.5	18.6	16.6	14.5	12.3	10.1				
30	44.3	42.3	40.0	37.5	35.0	32.6	30.2	28.0	25.8	23.7	21.4	19.1	16.7	14.2	11.6				
35	78.5	70.4	60.7	49.9	39.4	36.4	33.7	31.2	28.9	26.5	24.0	21.4	18.6	15.8	13.0				
40	118	107	95.1	81.4	67.3	53.2	40.0	34.6	32.1	29.4	26.6	23.5	20.4	17.3	14.2				
45	156	143	128	111	93.2	76.0	60.0	46.3	35.4	32.4	29.2	25.6	21.9	18.6	15.3				
50	197	181	162	139	116	94.2	74.6	58.4	45.5	36.3	31.9	27.9	23.4	19.4	16.1				
55	239	221	199	174	145	115	85.2	64.9	50.2	40.5	34.9	30.2	24.5	18.6	15.9				
60	281	261	236	208	176	141	108	75.9	50.6	41.5	36.9	32.7	25.7	17.8	15.1				
65	246	238	229	216	201	167	127	91.2	62.6	45.6	38.9	33.4	25.0	17.2	14.5				
70	196	189	181	170	156	139	120	100	69.8	49.1	39.5	31.8	20.6	15.2	14.5				
75	147	141	134	125	114	100	84.3	68.5	53.9	43.7	33.8	22.3	15.7	13.9	14.4				
80	97.6	93.8	88.9	82.4	74.3	64.6	53.6	42.4	32.9	26.9	20.1	12.8	11.2	12.0	12.4				
85	48.9	46.9	44.4	41.0	36.8	31.7	26.2	20.4	15.8	12.8	8.74	5.92	5.99	6.69	6.94				
90	0.31	0.29	0.28	0.27	0.27	0.26	0.26	0.26	0.26	0.27	0.27	0.28	0.29	0.28	0.26				
95	54.7	53.0	50.1	46.4	41.7	35.9	29.2	22.3	16.0	8.44	4.69	3.87	3.64	2.81	2.47				
100	109	106	100	93.4	84.2	73.1	60.1	46.5	34.8	19.5	10.5	7.86	7.86	8.38	8.67				
105	164	159	152	142	129	113	95.1	75.5	58.7	37.6	21.3	14.6	13.0	12.9	13.7				
110	219	214	204	192	176	158	136	111	76.4	51.5	36.5	26.9	16.9	14.6	14.8				
115	274	269	258	245	228	190	146	104	70.9	50.1	42.1	33.2	23.1	16.6	15.0				
120	314	296	271	240	205	166	128	91.2	61.4	47.7	40.5	35.2	26.5	17.9	15.6				
125	276	260	237	209	177	143	108	81.0	60.9	47.6	39.3	33.2	26.2	19.3	16.7				
130	239	224	203	178	149	121	94.9	72.4	55.0	42.4	36.5	31.4	25.9	21.2	17.5				
135	201	185	166	143	120	96.5	75.0	56.5	41.7	37.9	33.7	29.2	24.6	20.8	17.0				
140	153	140	124	106	86.6	67.3	48.9	41.1	37.9	34.5	30.9	27.1	23.3	19.7	16.1				
145	104	93.3	80.6	66.0	51.3	46.3	41.8	38.0	34.6	31.4	28.3	25.0	21.7	18.3	14.9				
150	61.4	58.0	54.2	50.1	46.0	41.9	38.1	34.6	31.4	28.4	25.6	22.7	19.7	16.7	13.6				
155	49.9	47.6	45.0	42.1	39.1	36.0	33.0	30.0	27.2	24.9	22.5	20.0	17.4	14.8	12.1				
160	38.0	36.5	34.7	32.7	30.6	28.3	26.4	24.7	23.0	21.1	19.1	17.1	15.0	12.8	10.5				
165	26.1	25.5	24.9	24.1	23.2	22.2	21.0	19.8	18.4	17.0	15.5	13.9	12.3	10.6	8.80				
170	18.7	18.4	18.0	17.5	16.9	16.2	15.4	14.6	13.7	12.7	11.7	10.6	9.44	8.26	7.05				
175	11.3	11.2	11.0	10.7	10.4	10.1	9.68	9.25	8.78	8.27	7.73	7.17	6.58	5.96	5.34				
180	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83				

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

g Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
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Remarks: