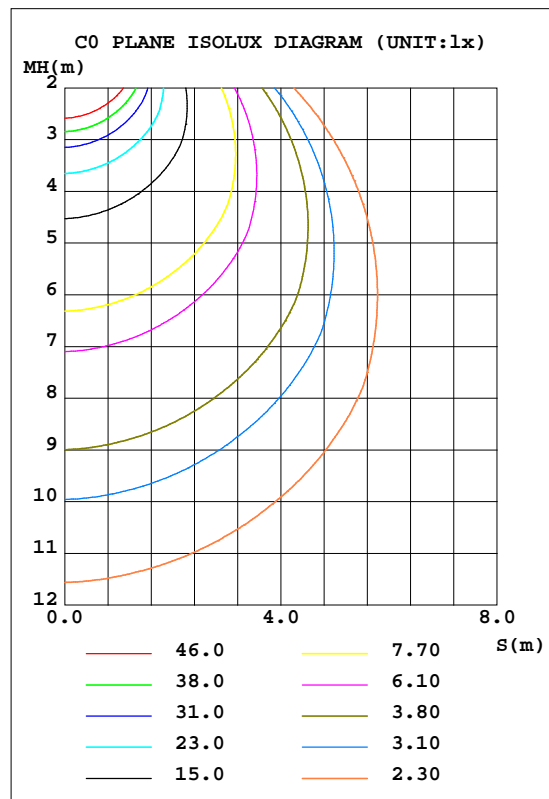
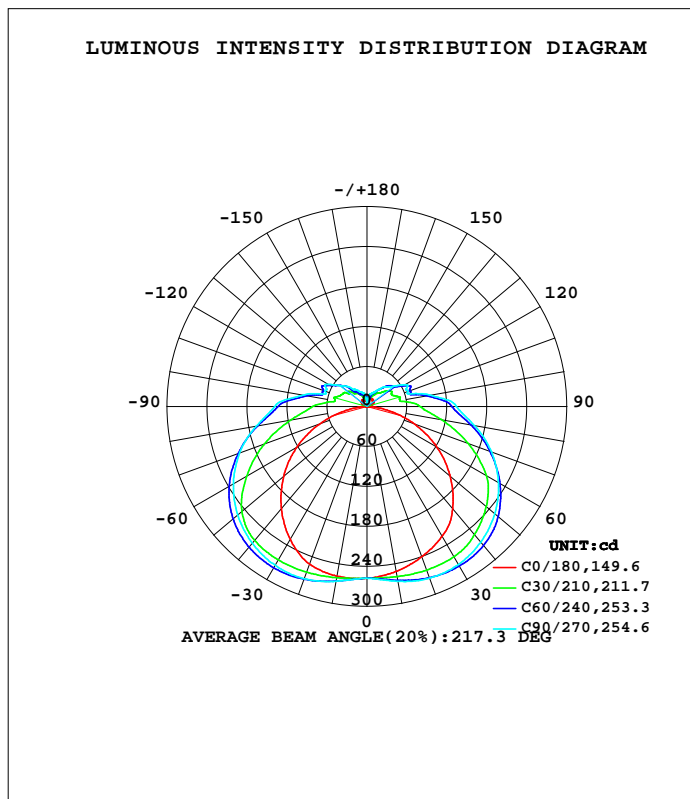


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LVC-36-MCT5-BN	Imax(cd)	279.7	S/MH(C0/180)	1.32
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.60
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1496.1	h UP, DN(C0-180)	9.4,40.4
NOMINAL FLUX(lm)	1496.09	CIE CLASS	SEMI-D.	h UP, DN(C180-360)	9.5,40.8
LAMPS INSIDE	1	h up(%)	18.8	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	h down(%)	81.2	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [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
10	251.5	262.4	266.4	263.4	258.4	263.7	266.4	261.8	0- 10	24.83	24.83	1.66,1.66
20	240.1	268.7	274.1	270.6	251.8	271.7	275.1	268.2	10- 20	74.85	99.68	6.66,6.66
30	225.3	272.1	274.0	275.5	230.4	276.6	275.3	271.8	20- 30	122.5	222.1	14.8,14.8
40	200.3	269.9	265.9	275.1	200.0	276.6	267.9	269.3	30- 40	162.2	384.3	25.7,25.7
50	163.2	257.4	250.3	267.8	163.2	269.7	253.2	256.0	40- 50	188.3	572.6	38.3,38.3
60	120.8	235.9	227.9	243.9	121.1	247.8	231.4	236.4	50- 60	195.8	768.4	51.4,51.4
70	74.17	200.9	198.9	201.2	74.50	206.8	203.5	203.7	60- 70	182.4	950.8	63.6,63.6
80	28.63	156.1	163.5	154.2	28.24	159.6	168.3	158.2	70- 80	151.0	1102	73.6,73.6
90	1.216	121.1	134.4	118.1	1.194	124.2	138.5	121.9	80- 90	112.9	1215	81.2,81.2
100	3.047	86.16	97.56	80.71	2.755	82.48	98.23	85.54	90-100	84.68	1299	86.9,86.9
110	6.948	72.08	65.50	71.56	6.561	74.29	67.26	76.54	100-110	56.47	1356	90.6,90.6
120	9.839	56.35	65.63	57.48	9.036	59.32	66.60	60.47	110-120	48.68	1405	93.9,93.9
130	11.57	47.84	46.82	48.16	10.62	47.53	48.80	46.62	120-130	37.13	1442	96.4,96.4
140	12.87	29.50	37.86	30.87	11.88	31.62	34.89	31.69	130-140	25.11	1467	98,98
150	12.95	21.75	26.61	21.57	11.89	22.30	28.01	23.55	140-150	15.37	1482	99.1,99.1
160	12.22	14.52	21.68	15.94	10.21	15.96	22.45	14.76	150-160	8.683	1491	99.6,99.6
170	14.09	9.436	16.23	13.47	12.66	13.87	15.50	10.16	160-170	4.067	1495	99.9,99.9
180	15.67	13.57	6.448	13.56	15.74	13.51	6.455	13.67	170-180	1.197	1496	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm										
NAME: LVC-36-MCT5-BN					TYPE:			WEIGHT:		
SPEC.:24W					DIM.:			SERIAL No.:		
MFR.: LiBo					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	10.3	11.7	10.8	12.2	12.8	11.5	12.9	12.0	13.4	14.0
3H	11.8	13.1	12.4	13.7	14.3	14.0	15.3	14.6	15.9	16.5
4H	12.4	13.7	13.0	14.2	14.9	15.4	16.7	16.0	17.2	17.9
6H	12.8	14.0	13.4	14.6	15.3	16.9	18.1	17.5	18.7	19.3
8H	13.0	14.1	13.6	14.7	15.4	17.7	18.9	18.3	19.5	20.1
12H	13.0	14.1	13.6	14.7	15.4	18.7	19.7	19.3	20.4	21.1
4H 2H	11.5	12.7	12.1	13.3	13.9	12.3	13.6	12.9	14.1	14.8
3H	13.4	14.5	14.0	15.1	15.8	15.1	16.2	15.7	16.8	17.5
4H	14.2	15.2	14.9	15.9	16.6	16.7	17.6	17.3	18.3	19.0
6H	14.9	15.8	15.5	16.4	17.2	18.3	19.2	19.0	19.9	20.6
8H	15.1	15.9	15.7	16.6	17.3	19.2	20.1	19.9	20.7	21.5
12H	15.2	16.0	15.9	16.6	17.4	20.3	21.0	21.0	21.7	22.5
8H 4H	15.3	16.1	16.0	16.8	17.6	17.2	18.0	17.8	18.7	19.4
6H	16.4	17.1	17.1	17.8	18.6	19.1	19.8	19.9	20.5	21.4
8H	16.8	17.5	17.6	18.2	19.0	20.3	20.9	21.0	21.6	22.4
12H	17.2	17.7	17.9	18.4	19.3	21.6	22.1	22.3	22.8	23.7
12H 4H	15.6	16.4	16.3	17.0	17.8	17.2	18.0	17.9	18.7	19.5
6H	16.9	17.6	17.6	18.3	19.1	19.3	20.0	20.1	20.7	21.5
8H	17.6	18.1	18.3	18.9	19.7	20.6	21.1	21.3	21.9	22.7
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 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.4				

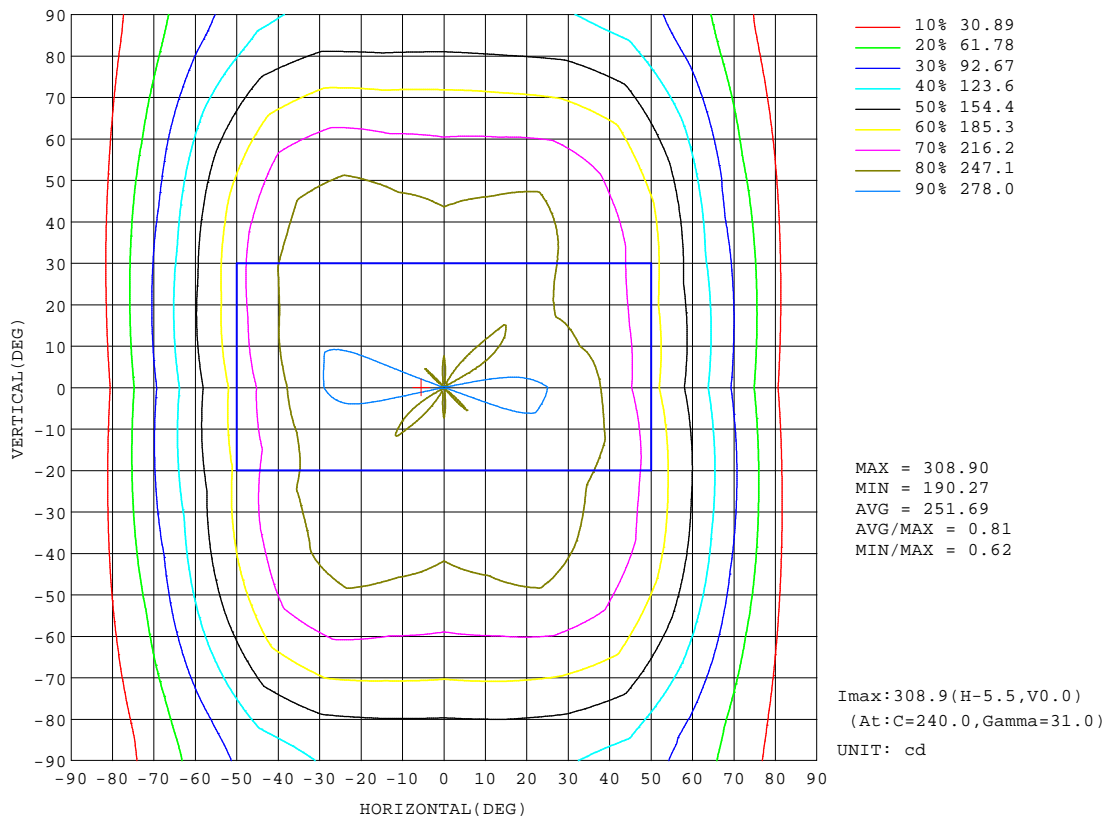
CIE Pub.117, 1496 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



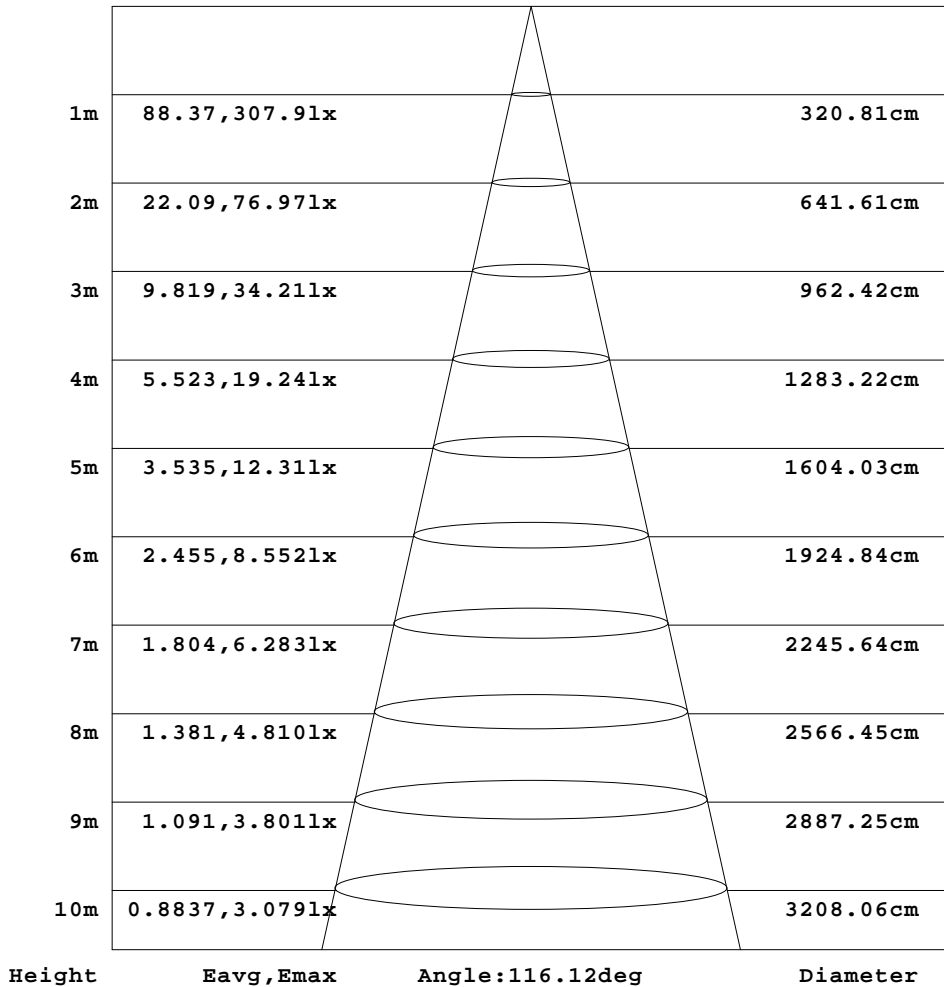
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:739.3 lm



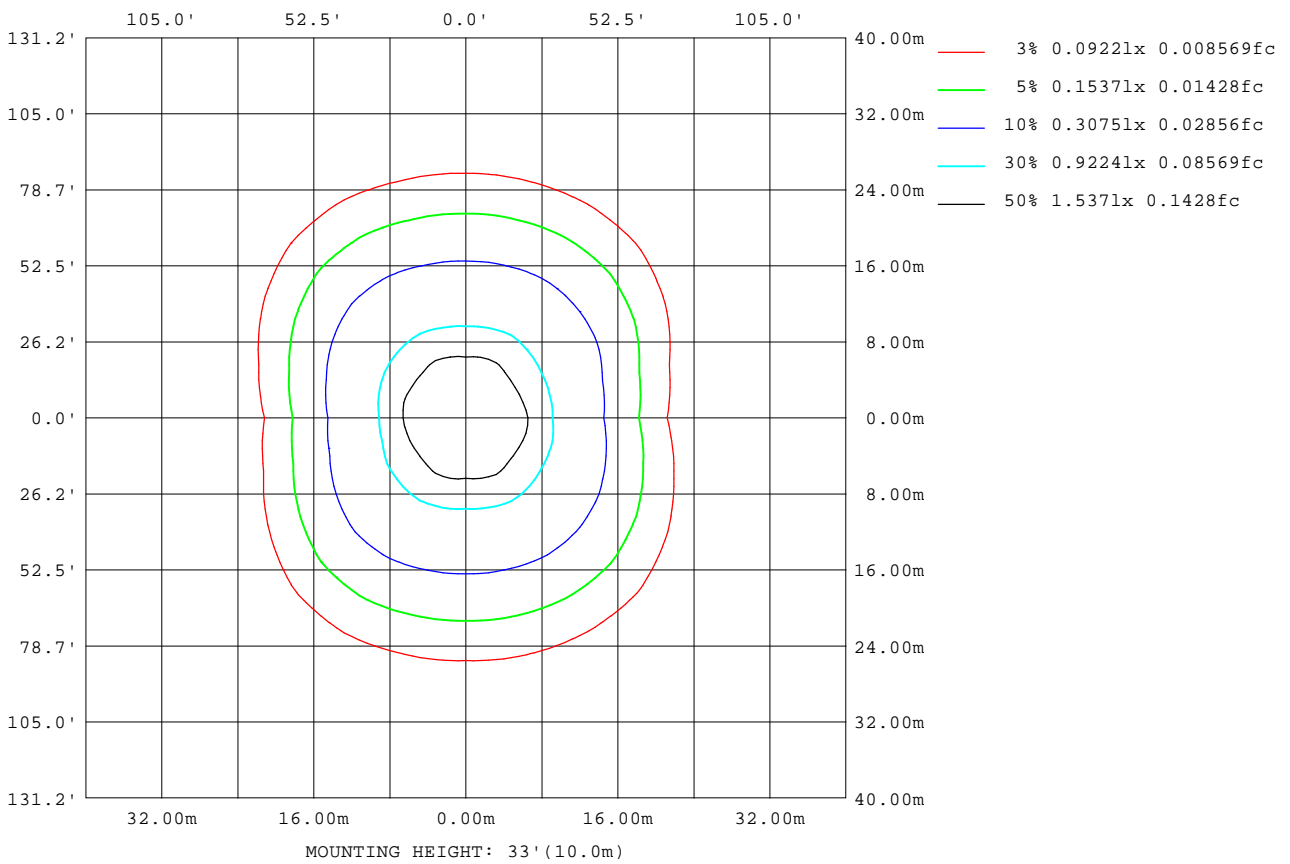
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

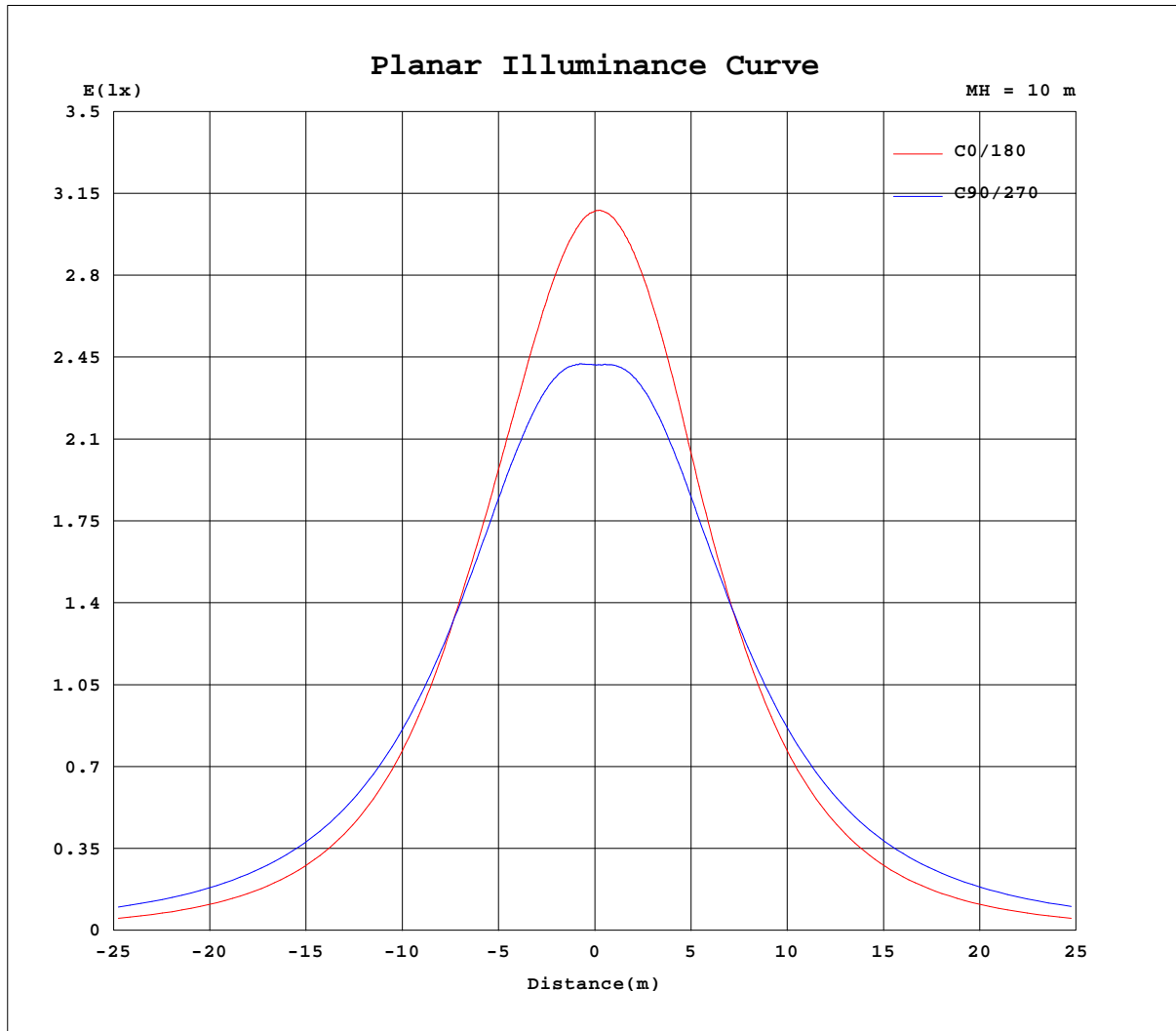
AvgL	cd/m2
L_0~180(65)av	464
L_0~180(75)av	394
L_0~180(85)av	229
L_90~270(65)av	1022
L_90~270(75)av	1425
L_90~270(85)av	3411
L_45(65)av	1058
L_45(75)av	1394
L_45(85)av	3103

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258
5	255	257	258	259	260	261	261	261	261	260	259	258	259	258	259	260	261	261	261
10	251	256	259	262	265	266	266	266	266	263	261	258	258	258	261	264	266	266	266
15	247	255	260	266	270	270	271	270	271	267	263	258	256	258	263	268	271	271	272
20	240	251	261	269	273	272	274	273	276	271	264	257	252	256	265	272	276	274	275
25	233	245	261	271	276	273	275	274	279	274	265	255	243	254	266	275	279	275	276
30	225	239	261	272	277	271	274	272	280	276	265	251	230	248	266	277	280	274	275
35	216	231	258	272	276	268	271	268	279	276	264	242	216	239	265	277	279	270	273
40	200	222	251	270	272	263	266	263	276	275	261	227	200	225	262	277	276	265	268
45	182	210	243	266	266	255	259	256	271	273	253	210	182	209	256	274	270	258	262
50	163	193	234	257	257	246	250	247	264	268	240	191	163	191	245	270	262	250	253
55	143	173	222	248	245	236	240	236	253	259	221	172	143	172	229	261	252	239	243
60	121	153	207	236	230	223	228	223	240	244	200	150	121	151	208	248	239	227	231
65	97.9	130	185	220	214	209	214	209	223	223	177	127	98.2	129	187	229	223	213	218
70	74.2	107	161	201	196	195	199	194	205	201	154	104	74.5	106	164	207	205	197	203
75	51.2	83.7	137	179	178	178	182	177	184	178	130	79.6	50.7	82.2	139	183	187	180	187
80	28.6	61.4	113	156	158	160	163	158	163	154	106	57.2	28.2	61.2	116	160	166	162	168
85	10.0	42.2	91.8	135	140	143	146	141	143	132	86.2	38.0	9.91	42.7	95.1	138	147	145	151
90	1.22	31.3	79.9	121	128	131	134	130	131	118	74.1	27.2	1.19	32.5	81.9	124	134	133	139
95	1.69	25.8	67.2	107	113	117	120	116	115	103	59.5	21.3	1.56	24.2	64.0	106	115	115	122
100	3.05	20.9	50.3	86.2	92.1	95.7	97.6	93.7	93.1	80.7	44.9	16.5	2.76	19.5	49.0	82.5	92.6	92.3	98.2
105	4.91	18.7	51.8	71.2	69.4	73.9	76.1	70.9	69.7	68.6	47.9	15.8	4.57	17.9	52.1	71.2	69.2	69.5	74.6
110	6.95	19.4	46.5	72.1	69.2	66.6	65.5	64.8	70.0	71.6	42.0	17.3	6.56	19.0	45.7	74.3	69.5	66.3	67.3
115	8.20	19.2	41.6	66.9	72.8	68.4	65.7	66.5	73.8	65.2	39.5	17.3	7.76	18.2	42.4	67.0	73.7	68.2	68.4
120	9.84	19.9	42.7	56.4	62.3	67.1	65.6	63.5	64.5	57.5	38.9	17.2	9.04	18.6	41.2	59.3	63.7	63.2	66.6
125	11.0	20.1	41.0	51.9	51.9	57.0	55.2	53.5	55.2	52.9	37.6	17.2	10.0	17.9	33.2	52.3	55.4	53.1	56.4
130	11.6	20.0	36.2	47.8	48.6	48.7	46.8	45.7	49.2	48.2	32.9	16.6	10.6	18.2	35.6	47.5	48.6	45.7	48.8
135	12.0	20.7	29.6	38.3	44.1	43.8	41.9	41.8	43.9	40.3	25.7	17.5	11.4	18.8	28.4	33.5	41.9	40.6	42.8
140	12.9	19.7	26.6	29.5	36.8	38.6	37.9	37.2	34.4	30.9	24.7	16.2	11.9	17.9	26.1	31.6	29.5	31.2	34.9
145	13.2	18.6	23.8	24.5	31.1	32.1	31.4	30.4	26.3	23.6	24.2	16.2	12.3	17.6	24.4	24.4	27.4	29.2	31.9
150	12.9	15.9	20.3	21.7	25.5	27.3	26.6	24.6	20.4	21.6	19.3	14.8	11.9	15.7	20.9	22.3	21.6	25.6	28.0
155	12.7	13.9	17.4	18.7	22.2	25.0	23.5	21.5	19.2	20.7	17.0	13.3	11.0	13.6	18.5	20.9	20.7	22.2	24.3
160	12.2	12.0	13.1	14.5	16.5	22.7	21.7	20.4	18.4	15.9	14.1	12.4	10.2	11.8	14.4	16.0	19.4	21.2	22.4
165	11.2	10.5	10.5	11.4	12.7	17.5	19.5	18.7	17.2	14.2	12.3	11.7	9.72	10.7	12.7	14.8	18.3	20.1	20.5
170	14.1	13.2	11.6	9.44	9.59	10.08	16.2	16.9	15.4	13.5	11.9	13.2	12.7	12.4	12.3	13.9	16.3	17.7	15.5
175	15.0	13.8	13.0	12.0	8.83	7.06	9.28	13.5	13.2	12.2	12.1	14.0	14.0	13.0	12.3	12.6	14.3	13.6	7.23
180	15.7	14.9	14.2	13.6	13.6	10.17	6.45	10.13	13.1	13.6	14.4	16.1	15.7	14.8	14.3	13.5	13.6	10.01	6.45

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-30

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.97V I:0.2095A P:23.390W PF:0.9306 Freq:59.98Hz Lamp Flux:1496.09x1 lm		
NAME: LVC-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:24W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345															
0	258	258	258	258	258															
5	260	260	259	258	257															
10	265	265	262	259	257															
15	270	269	265	260	256															
20	272	274	268	260	255															
25	273	277	270	260	250															
30	272	278	272	259	243															
35	268	278	271	255	235															
40	263	276	269	248	226															
45	256	271	263	241	213															
50	247	261	256	232	195															
55	237	250	247	222	175															
60	224	236	236	207	153															
65	210	220	222	185	130															
70	195	202	204	162	106															
75	178	183	181	137	81.3															
80	160	163	158	113	59.1															
85	143	144	136	91.9	39.5															
90	130	131	122	78.6	28.8															
95	114	115	107	66.2	24.1															
100	91.9	92.7	85.5	52.1	19.6															
105	69.5	69.7	75.6	52.7	19.0															
110	67.0	70.0	76.5	46.6	19.7															
115	70.6	73.8	68.8	44.4	19.6															
120	65.5	64.5	60.5	42.3	20.4															
125	55.3	56.8	54.0	39.2	20.6															
130	47.6	50.6	46.6	37.3	20.5															
135	41.7	43.1	36.3	30.8	20.8															
140	32.8	32.9	31.7	28.8	19.8															
145	30.8	29.9	26.6	25.6	19.5															
150	27.1	24.8	23.6	20.8	16.7															
155	24.5	21.2	20.3	17.8	14.6															
160	22.2	15.6	14.8	14.1	12.7															
165	17.5	13.5	11.5	11.1	11.9															
170	10.4	10.41	10.16	12.2	14.7															
175	7.21	9.32	12.5	13.5	15.4															
180	10.11	13.3	13.7	14.5	16.1															

C Range: 0 - 360DEG	g Range: 0 - 180DEG
C Interval: 15.0DEG	g Interval: 0.5DEG
Test Speed: MEDIUM	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:3.010m [K=1.0000]
Test Date:2020-12-30	Remarks: