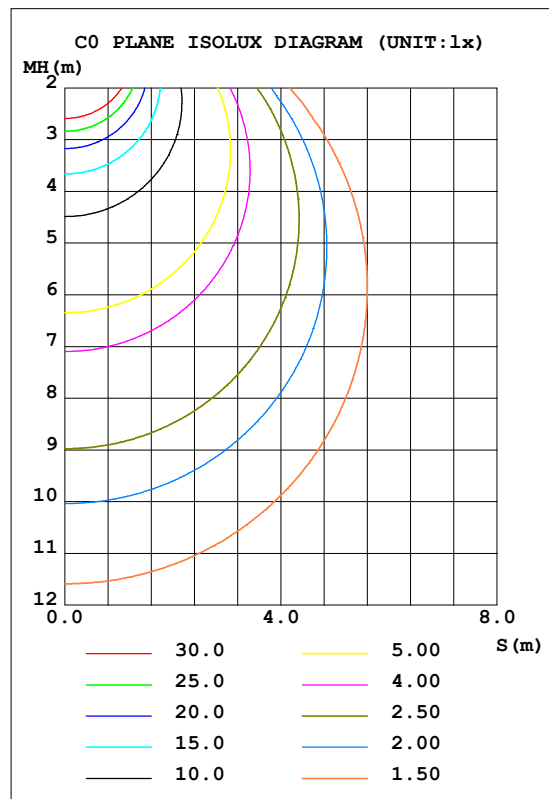
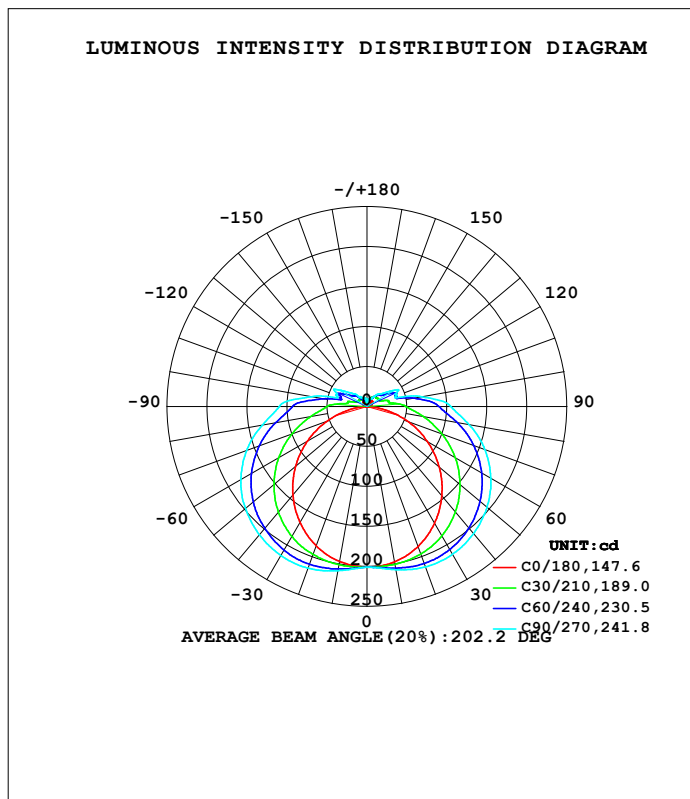


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LVC-24-MCT5-BN	I _{max} (cd)	216.2	S/MH (C0/180)	1.24
NOMINAL POWER (W)	16	LOR (%)	100.0	S/MH (C90/270)	1.60
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1039.6	h UP, DN (C0-180)	7.9, 41.9
NOMINAL FLUX (lm)	1039.58	CIE CLASS	SEMI-D.	h UP, DN (C180-360)	8.0, 42.3
LAMPS INSIDE	1	h up (%)	15.9	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	120	h down (%)	84.1	CIBSE SHR MAX	1.55



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	197.4	202.9	207.2	202.4	196.8	203.8	208.4	203.8	0- 10	19.30	19.30	1.86,1.86
20	186.5	203.3	213.6	201.6	185.6	204.0	215.2	204.1	10- 20	57.48	76.78	7.39,7.39
30	168.9	198.3	213.5	195.9	167.6	198.4	215.4	198.7	20- 30	91.98	168.8	16.2,16.2
40	145.8	187.8	207.5	184.2	144.3	186.5	209.5	186.8	30- 40	118.5	287.3	27.6,27.6
50	118.2	171.1	196.0	166.9	116.6	169.5	198.4	169.7	40- 50	134.3	421.6	40.6,40.6
60	86.99	150.0	178.8	145.2	85.69	148.2	182.1	148.0	50- 60	137.4	559.0	53.8,53.8
70	54.15	124.5	156.9	119.4	52.29	122.6	160.0	122.0	60- 70	127.7	686.7	66.1,66.1
80	20.89	96.51	129.3	91.78	20.01	95.00	132.6	93.85	70- 80	106.8	793.6	76.3,76.3
90	0.9878	72.81	104.8	68.99	0.8939	74.15	109.7	72.82	80- 90	80.91	874.5	84.1,84.1
100	2.049	49.14	70.47	41.86	1.557	43.27	71.21	48.59	90-100	58.94	933.4	89.8,89.8
110	4.263	35.94	39.16	33.04	3.617	33.49	41.32	37.96	100-110	32.98	966.4	93,93
120	6.198	24.37	41.74	19.83	5.178	20.07	42.34	24.00	110-120	26.12	992.5	95.5,95.5
130	7.729	20.90	25.56	18.93	6.074	18.43	26.91	21.34	120-130	18.45	1011	97.2,97.2
140	8.912	16.54	19.69	15.93	7.291	16.37	16.70	18.36	130-140	12.85	1024	98.5,98.5
150	8.499	14.04	11.95	12.10	6.978	11.62	12.80	15.00	140-150	8.270	1032	99.3,99.3
160	7.419	9.634	9.670	9.719	6.115	8.605	10.90	9.247	150-160	4.691	1037	99.7,99.7
170	6.558	6.350	9.625	6.930	4.842	6.658	8.619	6.583	160-170	2.204	1039	99.9,99.9
180	8.056	7.693	4.437	7.592	8.051	7.678	4.441	7.599	170-180	0.6116	1040	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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm										
NAME: LVC-24-MCT5-BN					TYPE:			WEIGHT:		
SPEC.:16W					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	8.4	9.8	8.9	10.3	10.8	11.1	12.5	11.6	13.0	13.5
3H	9.9	11.2	10.4	11.7	12.3	13.8	15.2	14.4	15.7	16.2
4H	10.5	11.7	11.0	12.2	12.8	15.3	16.6	15.8	17.1	17.7
6H	10.9	12.1	11.4	12.6	13.2	16.9	18.1	17.4	18.6	19.2
8H	11.0	12.1	11.5	12.7	13.3	17.7	18.9	18.3	19.4	20.1
12H	11.0	12.1	11.6	12.7	13.3	18.7	19.8	19.3	20.4	21.0
4H 2H	9.8	11.0	10.3	11.6	12.2	11.7	12.9	12.2	13.5	14.1
3H	11.6	12.7	12.2	13.3	13.9	14.7	15.8	15.2	16.3	17.0
4H	12.4	13.4	13.0	14.0	14.7	16.3	17.3	16.9	17.9	18.6
6H	13.0	13.9	13.6	14.5	15.2	18.1	19.0	18.7	19.7	20.4
8H	13.2	14.1	13.8	14.7	15.4	19.1	20.0	19.7	20.6	21.3
12H	13.3	14.1	14.0	14.8	15.5	20.2	21.0	20.9	21.6	22.4
8H 4H	13.6	14.5	14.3	15.1	15.8	16.7	17.5	17.3	18.2	18.9
6H	14.7	15.4	15.3	16.0	16.8	18.8	19.5	19.4	20.2	20.9
8H	15.1	15.7	15.8	16.4	17.2	20.0	20.6	20.6	21.3	22.1
12H	15.4	16.0	16.1	16.7	17.5	21.3	21.9	22.0	22.6	23.4
12H 4H	14.0	14.8	14.6	15.4	16.2	16.7	17.5	17.3	18.1	18.9
6H	15.3	15.9	16.0	16.6	17.4	18.9	19.5	19.6	20.2	21.0
8H	15.9	16.5	16.6	17.2	18.0	20.2	20.8	20.9	21.5	22.3
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				

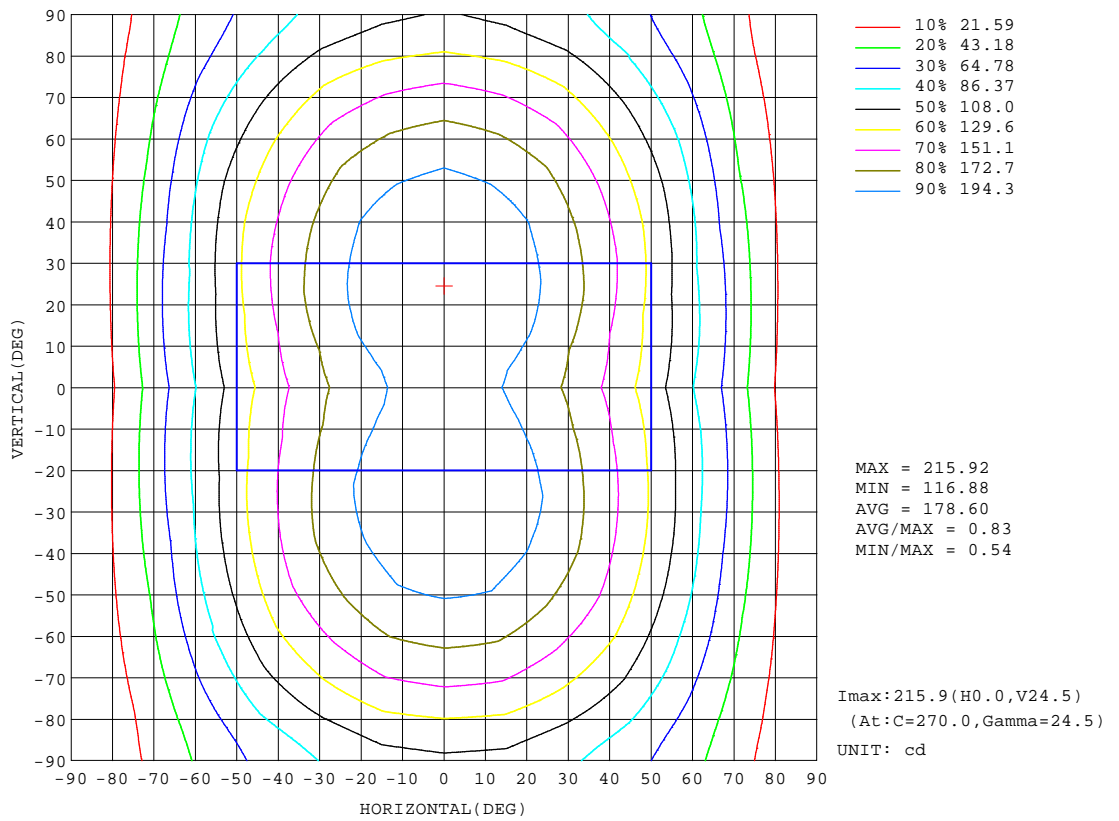
CIE Pub.117, 1040 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.1)

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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



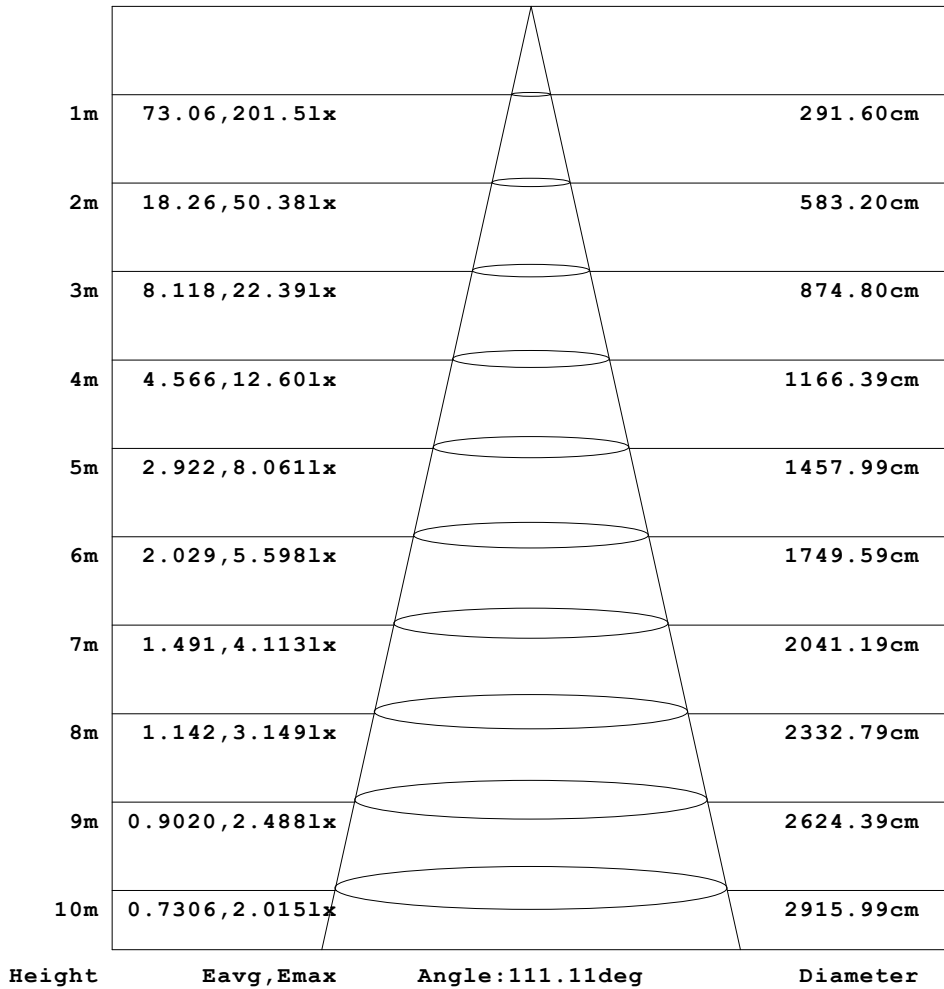
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-12-30

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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:504.5 lm



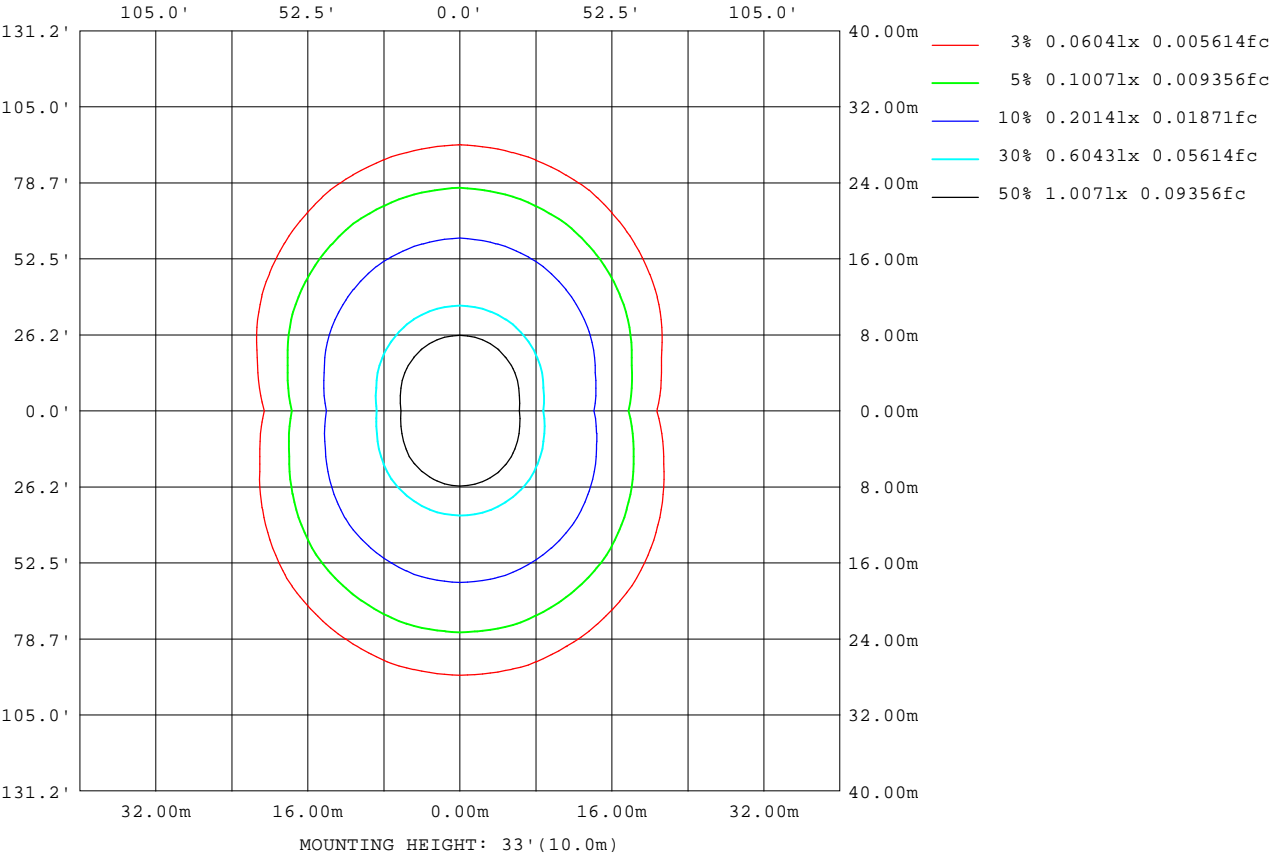
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

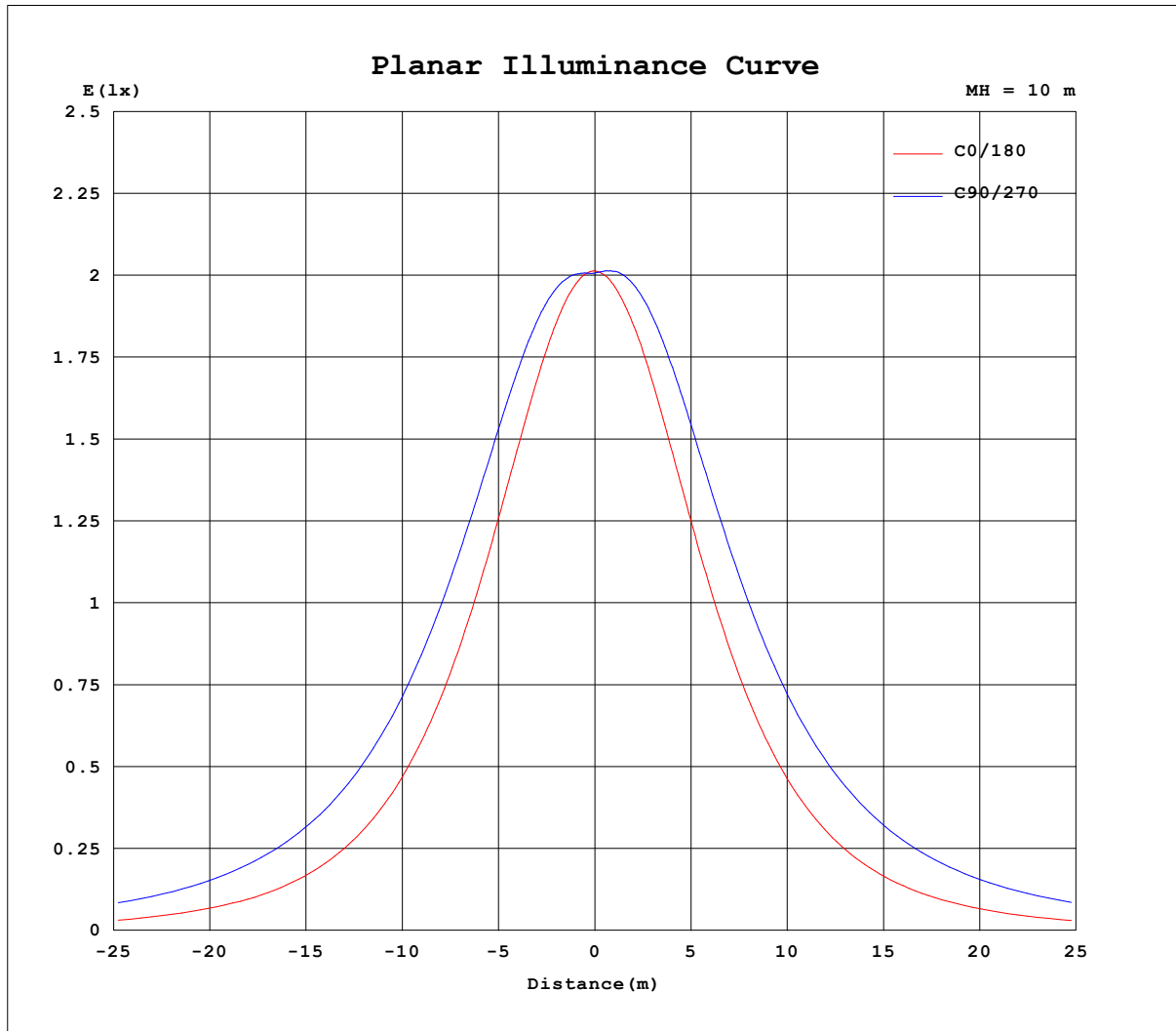
AvgL	cd/m2
L_0~180 (65) av	332
L_0~180 (75) av	280
L_0~180 (85) av	175
L_90~270 (65) av	805
L_90~270 (75) av	1125
L_90~270 (85) av	2693
L_45 (65) av	641
L_45 (75) av	837
L_45 (85) av	1862

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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	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	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
5	200	200	201	202	202	203	203	203	202	201	201	200	200	200	201	202	203	204	204
10	197	198	200	203	205	207	207	206	205	202	200	197	197	198	201	204	206	208	208
15	193	195	199	204	208	210	211	210	207	203	198	194	192	195	199	205	209	212	212
20	186	191	197	203	209	213	214	212	208	202	194	188	186	190	197	204	210	214	215
25	178	184	193	202	209	213	214	212	207	199	190	181	177	183	193	202	210	215	216
30	169	177	187	198	207	212	214	211	205	196	184	173	168	175	188	198	208	213	215
35	158	167	180	194	203	210	211	208	201	191	176	163	156	165	181	193	204	211	213
40	146	157	172	188	198	206	208	204	196	184	168	153	144	155	172	186	199	207	209
45	132	146	163	180	192	200	202	199	189	176	158	141	131	143	163	179	193	201	205
50	118	133	152	171	185	195	196	193	181	167	147	128	117	131	152	170	186	194	198
55	103	119	140	161	176	187	188	185	172	157	135	114	102	117	140	159	177	187	191
60	87.0	105	127	150	166	177	179	175	162	145	122	99.4	85.7	102	127	148	167	177	182
65	71.2	89.6	114	138	154	166	168	164	150	133	108	84.0	69.2	86.8	114	136	155	166	172
70	54.2	73.7	99.5	124	142	155	157	153	138	119	93.8	68.1	52.3	71.9	99.7	123	143	155	160
75	37.0	57.8	84.9	111	129	142	144	140	125	106	80.1	52.2	35.5	56.1	85.2	109	130	142	147
80	20.9	42.9	71.2	96.5	114	127	129	125	111	91.8	65.8	37.6	20.0	41.7	70.9	95.0	116	127	133
85	7.95	29.7	57.9	82.5	100	113	115	111	96.7	78.2	53.1	25.1	7.30	29.3	58.2	82.5	102	114	119
90	0.99	21.5	48.7	72.8	90.0	103	105	101	86.9	69.0	44.6	17.9	0.89	22.1	50.0	74.1	93.3	105	110
95	1.29	17.9	39.8	62.7	78.6	89.8	91.0	87.1	74.1	57.5	34.0	13.9	1.06	16.9	37.7	60.5	77.9	88.3	94.8
100	2.05	13.1	28.3	49.1	60.7	69.0	70.5	64.9	54.9	41.9	23.0	8.80	1.56	10.7	25.0	43.3	56.5	65.5	71.2
105	3.07	11.0	28.2	37.3	39.6	47.8	48.7	41.9	33.5	32.0	22.8	7.86	2.48	9.06	24.9	32.6	33.7	40.1	47.4
110	4.26	10.9	22.2	35.9	38.5	41.0	39.2	36.9	34.2	33.0	16.2	8.28	3.62	9.05	17.6	33.5	34.6	38.2	41.3
115	5.55	11.3	17.9	30.9	41.3	43.4	40.6	40.1	38.9	26.0	13.5	9.37	4.99	9.94	14.2	26.1	39.7	41.7	43.6
120	6.20	11.5	17.0	24.4	33.0	42.9	41.7	38.5	31.0	19.8	13.0	9.02	5.18	9.68	13.2	20.1	30.9	37.4	42.3
125	7.31	12.1	16.7	21.5	25.6	34.0	32.7	29.5	24.2	18.5	13.3	9.26	5.86	9.24	12.7	17.9	24.2	28.3	33.2
130	7.73	12.1	16.5	20.9	22.3	26.8	25.6	23.0	21.8	18.9	12.5	8.91	6.07	9.20	13.2	18.4	20.9	22.4	26.9
135	8.20	12.6	15.8	19.1	20.4	23.4	22.1	20.7	21.0	18.0	11.5	9.32	7.13	9.84	11.7	15.6	19.6	19.4	22.6
140	8.91	12.4	16.2	16.5	18.3	20.3	19.7	18.0	17.7	15.9	12.3	9.32	7.29	9.65	12.5	16.4	13.6	11.8	16.7
145	8.96	12.6	15.2	15.0	15.0	15.4	15.0	14.1	13.1	12.2	13.9	9.83	7.43	10.3	12.9	11.6	12.6	11.8	14.9
150	8.50	10.6	13.6	14.0	12.2	12.0	12.0	9.86	10.1	12.1	11.1	8.79	6.98	8.86	11.3	11.6	9.52	9.99	12.8
155	8.09	9.37	12.0	12.6	10.9	11.7	10.4	8.15	9.46	13.1	10.1	7.53	6.49	7.38	10.4	12.2	8.78	8.21	10.9
160	7.42	8.09	8.81	9.63	9.74	11.4	9.67	8.77	8.99	9.72	8.26	6.53	6.12	6.26	7.49	8.60	8.22	9.06	10.9
165	6.25	6.53	6.96	7.71	8.88	10.2	9.67	9.08	8.25	7.50	6.32	5.27	5.10	5.07	5.91	7.17	8.07	9.44	10.6
170	6.56	6.47	6.36	6.35	6.56	7.73	9.62	8.42	7.97	6.93	5.29	5.00	4.84	4.92	5.12	6.66	7.64	8.97	8.62
175	7.32	6.92	6.78	6.19	4.92	4.54	5.36	6.22	7.11	6.04	5.39	5.47	5.85	5.70	5.67	6.26	7.33	6.66	4.60
180	8.06	8.05	8.05	7.69	7.28	5.40	4.44	5.35	6.84	7.59	8.04	7.93	8.05	8.06	8.06	7.68	7.23	5.40	4.44

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:0.1440A P:16.274W PF:0.9423 Freq:59.98Hz Lamp Flux:1039.58x1 lm		
NAME: LVC-24-MCT5-BN	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) g (DEG)	285	300	315	330	345															
0	201	201	201	201	201															
5	204	203	202	201	201															
10	208	206	204	201	199															
15	211	209	205	200	195															
20	214	210	204	197	190															
25	214	210	202	193	183															
30	213	208	199	188	175															
35	211	204	194	181	166															
40	206	199	187	173	155															
45	201	193	179	163	143															
50	194	186	170	152	130															
55	186	177	159	140	116															
60	177	167	148	127	102															
65	166	155	135	113	86.1															
70	154	143	122	98.5	70.8															
75	141	129	108	83.6	54.5															
80	127	115	93.9	69.0	39.3															
85	113	102	81.4	56.1	26.5															
90	104	92.6	72.8	47.8	19.0															
95	89.2	79.8	62.7	39.2	15.7															
100	68.8	62.0	48.6	29.1	11.3															
105	45.3	41.9	39.5	27.5	10.4															
110	43.2	40.1	38.0	20.9	10.3															
115	46.3	41.2	29.7	18.6	10.8															
120	41.2	32.8	24.0	17.7	11.1															
125	31.7	26.7	22.1	17.8	11.6															
130	25.4	23.5	21.3	17.0	11.6															
135	21.7	21.2	19.9	16.5	12.1															
140	16.7	17.3	18.4	17.3	11.7															
145	14.6	15.4	16.1	16.1	12.0															
150	12.1	13.2	15.0	13.3	9.94															
155	11.1	11.0	13.3	11.4	8.83															
160	10.9	9.55	9.25	8.86	7.60															
165	10.3	8.61	7.22	6.76	6.31															
170	7.35	6.53	6.58	6.52	6.59															
175	4.72	5.13	6.62	7.13	7.43															
180	5.29	6.77	7.60	8.03	7.86															

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: