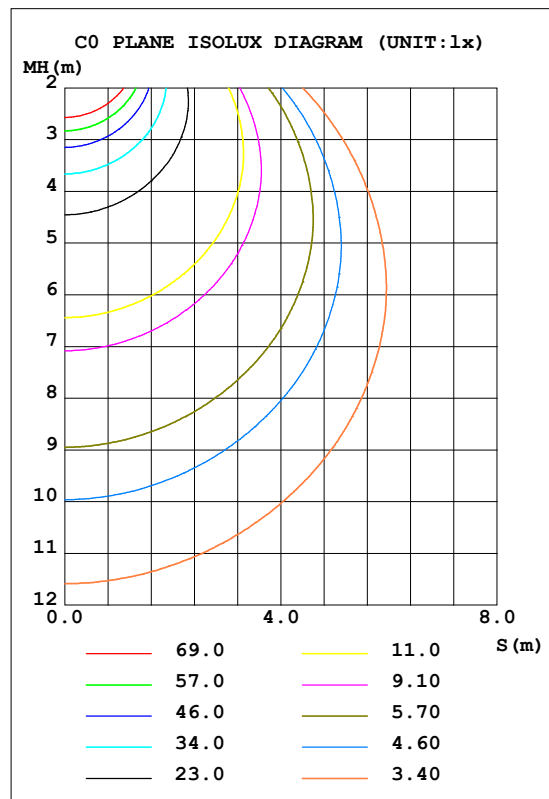
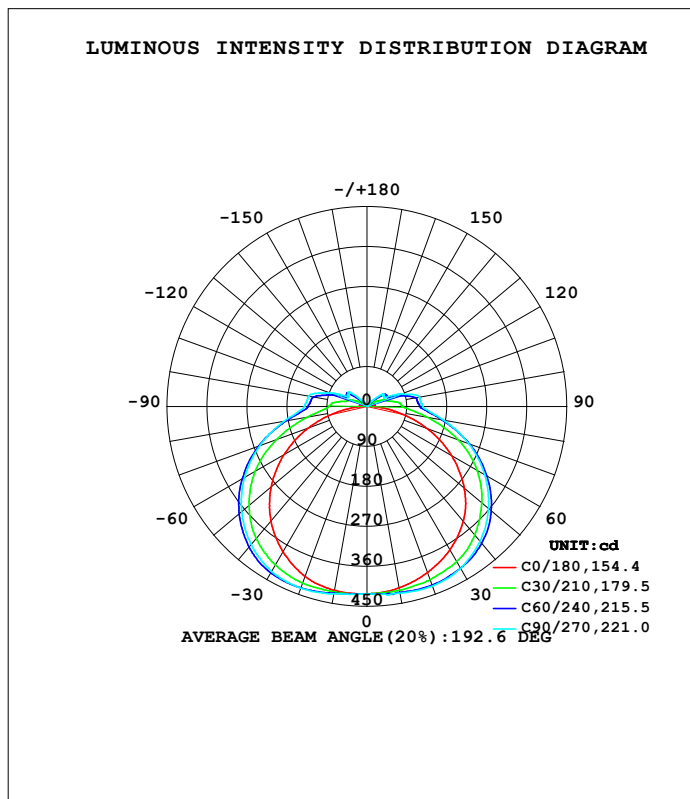


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LVA-36-MCT5-BN	Imax (cd)	435.6	S/MH (C0/180)	1.33
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.51
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1995.5	h UP, DN (C0-180)	6.1,43.2
NOMINAL FLUX (lm)	1995.49	CIE CLASS	SEMI-D.	h UP, DN (C180-360)	6.7,44.1
LAMPS INSIDE	1	h up (%)	12.7	CIBSE SHR NOM	1.75
TEST VOLTAGE (V)	120	h down (%)	87.3	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 14 December 2020

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	414.5	424.7	426.8	425.4	420.2	426.1	428.1	423.8	0- 10	40.38	40.38	2.02,2.02
20	398.0	425.3	430.0	428.1	407.2	431.4	435.2	428.1	10- 20	119.9	160.3	8.03,8.03
30	373.1	417.7	420.7	426.1	378.5	430.9	429.3	422.6	20- 30	192.9	353.2	17.7,17.7
40	337.5	402.4	396.0	407.3	336.5	413.0	405.8	408.6	30- 40	250.4	603.6	30.2,30.2
50	286.1	366.8	357.2	371.3	281.6	376.7	368.5	374.0	40- 50	283.0	886.6	44.4,44.4
60	219.5	313.5	306.1	317.4	214.6	322.9	317.9	320.7	50- 60	284.5	1171	58.7,58.7
70	143.2	246.2	243.3	248.8	139.4	255.4	256.4	254.2	60- 70	253.3	1424	71.4,71.4
80	65.48	166.2	174.3	168.2	62.46	174.6	189.0	174.1	70- 80	192.7	1617	81,81
90	17.45	108.1	125.7	113.5	17.20	123.0	140.7	118.4	80- 90	124.4	1742	87.3,87.3
100	16.42	95.46	120.1	100.8	16.14	106.0	133.1	104.3	90-100	97.84	1839	92.2,92.2
110	14.45	51.87	82.58	50.40	14.09	55.52	90.49	55.58	100-110	72.71	1912	95.8,95.8
120	11.77	42.46	44.69	44.57	11.48	50.53	49.18	52.14	110-120	40.93	1953	97.9,97.9
130	8.657	17.64	40.39	17.05	8.391	17.81	49.41	20.24	120-130	26.65	1980	99.2,99.2
140	5.366	7.485	15.88	7.214	5.059	5.401	17.18	7.465	130-140	11.11	1991	99.8,99.8
150	2.407	1.857	6.317	1.791	1.185	1.520	6.005	1.615	140-150	3.450	1994	99.9,99.9
160	1.241	1.523	1.621	1.448	1.050	1.252	1.336	1.332	150-160	0.8320	1995	100,100
170	1.048	1.322	1.252	1.175	0.9153	1.031	1.104	1.169	160-170	0.3412	1995	100,100
180	0.9942	1.255	1.309	1.260	0.9945	1.252	1.310	1.259	170-180	0.1051	1995	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:14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm										
NAME: LVA-36-MCT5-BN					TYPE:			WEIGHT:		
SPEC.:30W					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	12.1	13.6	12.5	14.0	14.5	12.9	14.3	13.3	14.8	15.2
3H	13.8	15.2	14.3	15.6	16.1	15.1	16.5	15.6	16.9	17.4
4H	14.5	15.8	15.0	16.3	16.8	16.3	17.6	16.8	18.0	18.6
6H	15.0	16.2	15.5	16.7	17.3	17.5	18.7	18.0	19.2	19.7
8H	15.2	16.4	15.7	16.9	17.5	18.1	19.3	18.6	19.8	20.3
12H	15.4	16.5	15.9	17.0	17.6	18.8	19.9	19.3	20.4	21.0
4H 2H	13.1	14.4	13.6	14.8	15.4	13.6	14.9	14.1	15.4	15.9
3H	15.1	16.2	15.6	16.7	17.3	16.1	17.2	16.6	17.8	18.3
4H	16.0	17.0	16.5	17.5	18.1	17.4	18.5	18.0	19.0	19.6
6H	16.7	17.6	17.2	18.2	18.8	18.8	19.7	19.4	20.3	20.9
8H	16.9	17.8	17.5	18.4	19.0	19.5	20.4	20.1	21.0	21.6
12H	17.1	17.9	17.7	18.5	19.2	20.3	21.1	20.9	21.7	22.4
8H 4H	16.7	17.5	17.3	18.1	18.8	17.9	18.7	18.5	19.3	20.0
6H	17.7	18.4	18.3	19.1	19.8	19.5	20.2	20.1	20.8	21.5
8H	18.2	18.8	18.8	19.5	20.2	20.4	21.1	21.1	21.7	22.4
12H	18.5	19.1	19.2	19.8	20.5	21.5	22.0	22.1	22.7	23.4
12H 4H	16.8	17.6	17.5	18.2	18.9	17.9	18.7	18.5	19.3	20.0
6H	18.0	18.7	18.7	19.3	20.1	19.7	20.3	20.3	20.9	21.7
8H	18.6	19.2	19.3	19.9	20.6	20.7	21.2	21.3	21.9	22.6
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					+ 0.2 / - 0.4				

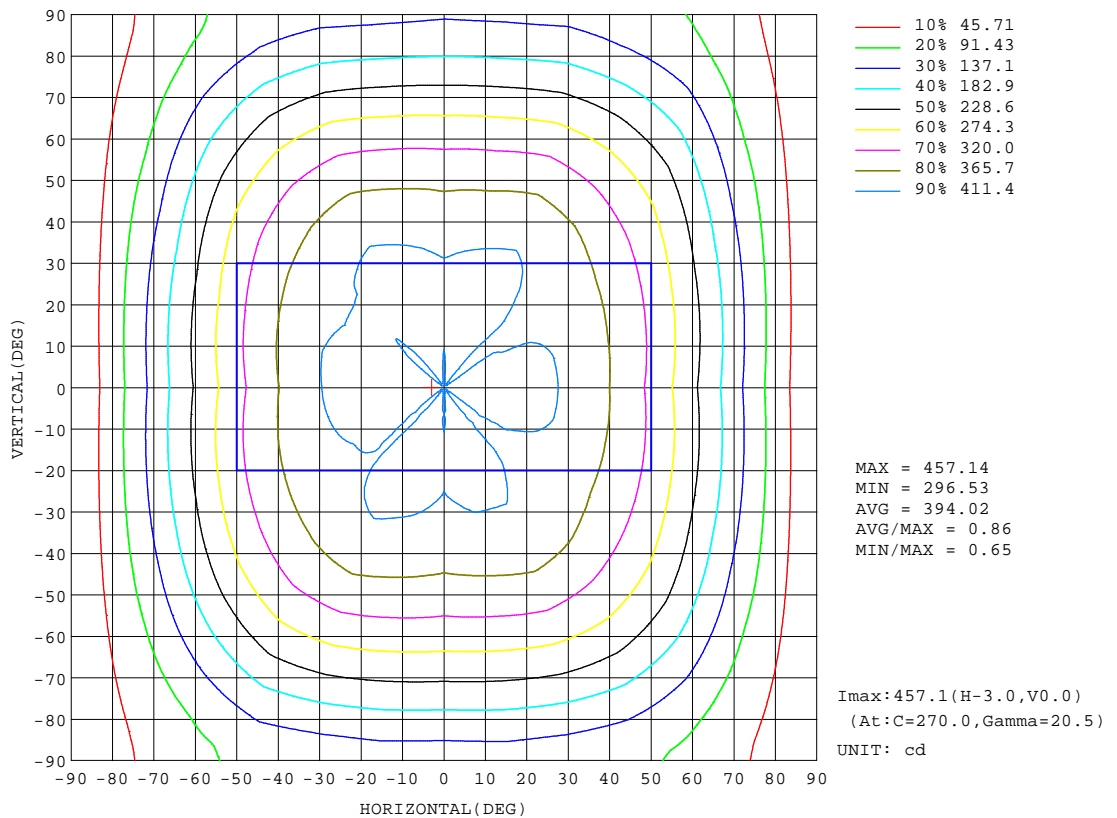
CIE Pub.117, 1995 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



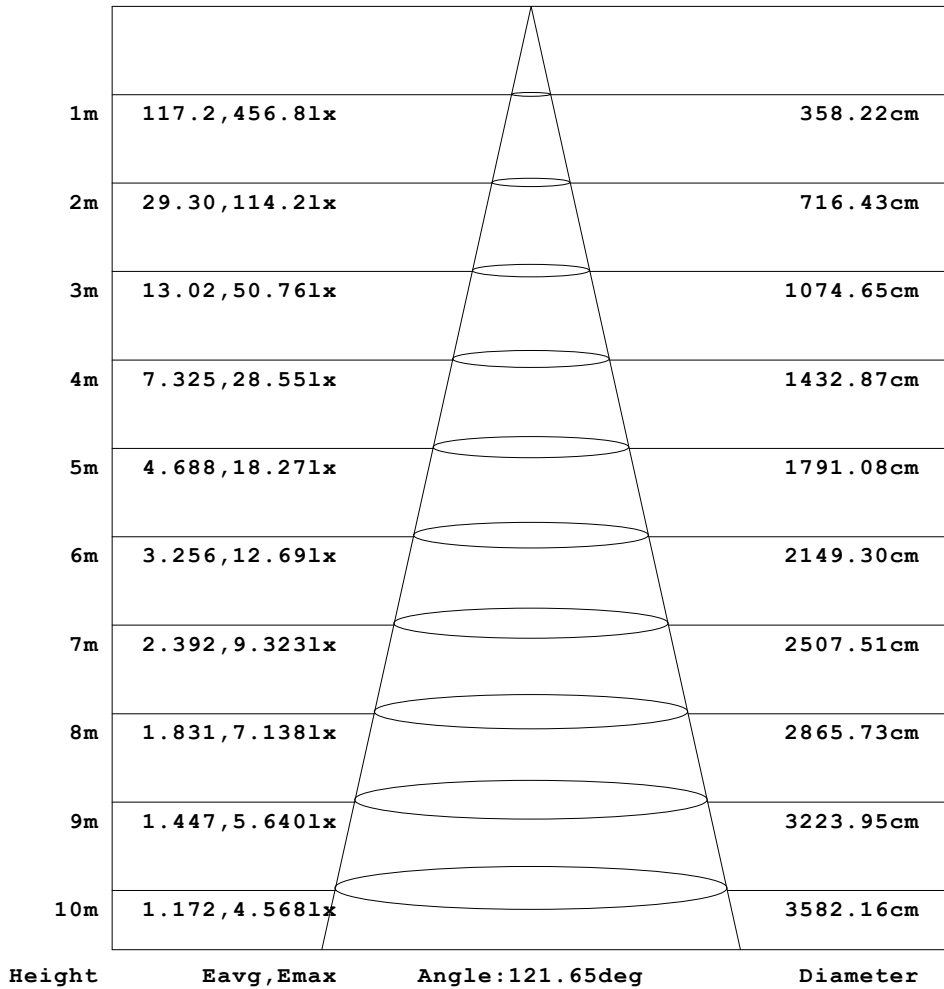
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:1198 lm



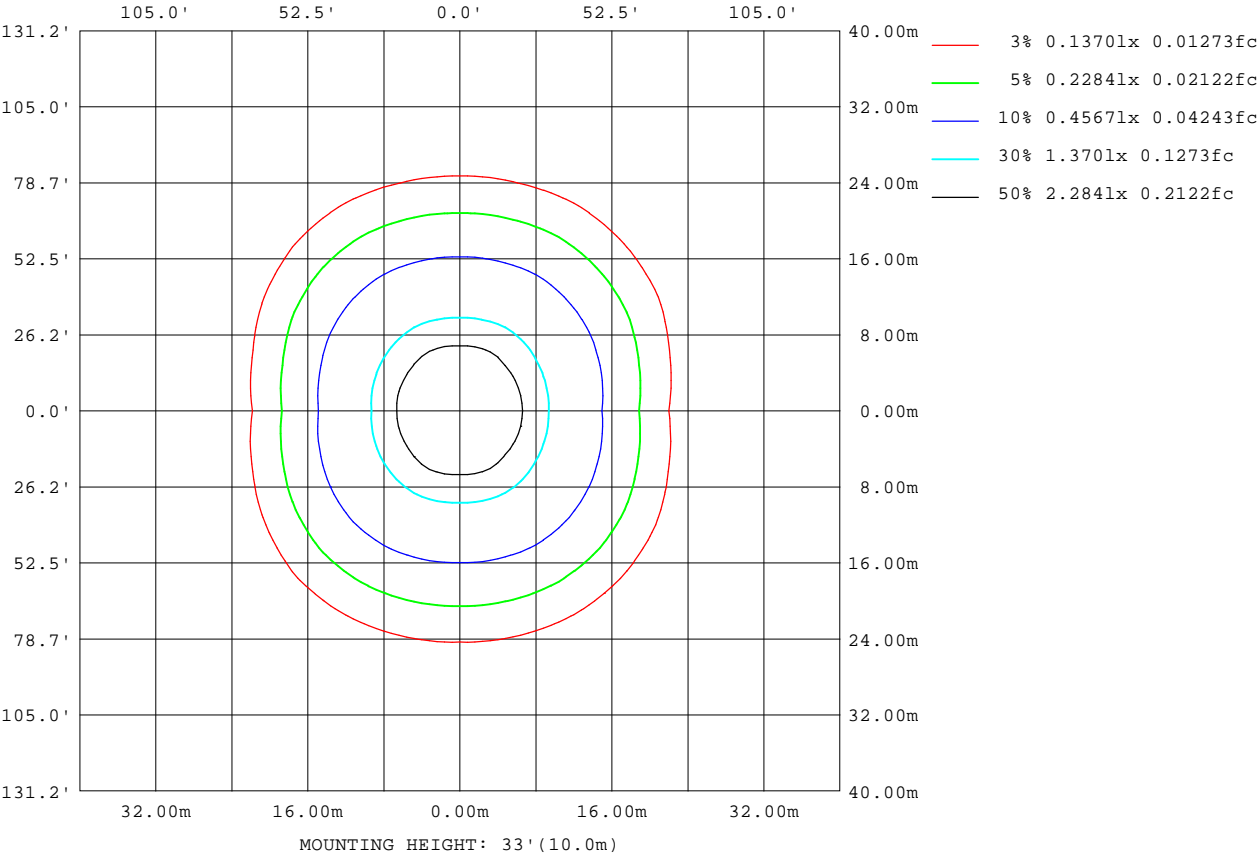
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	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:14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

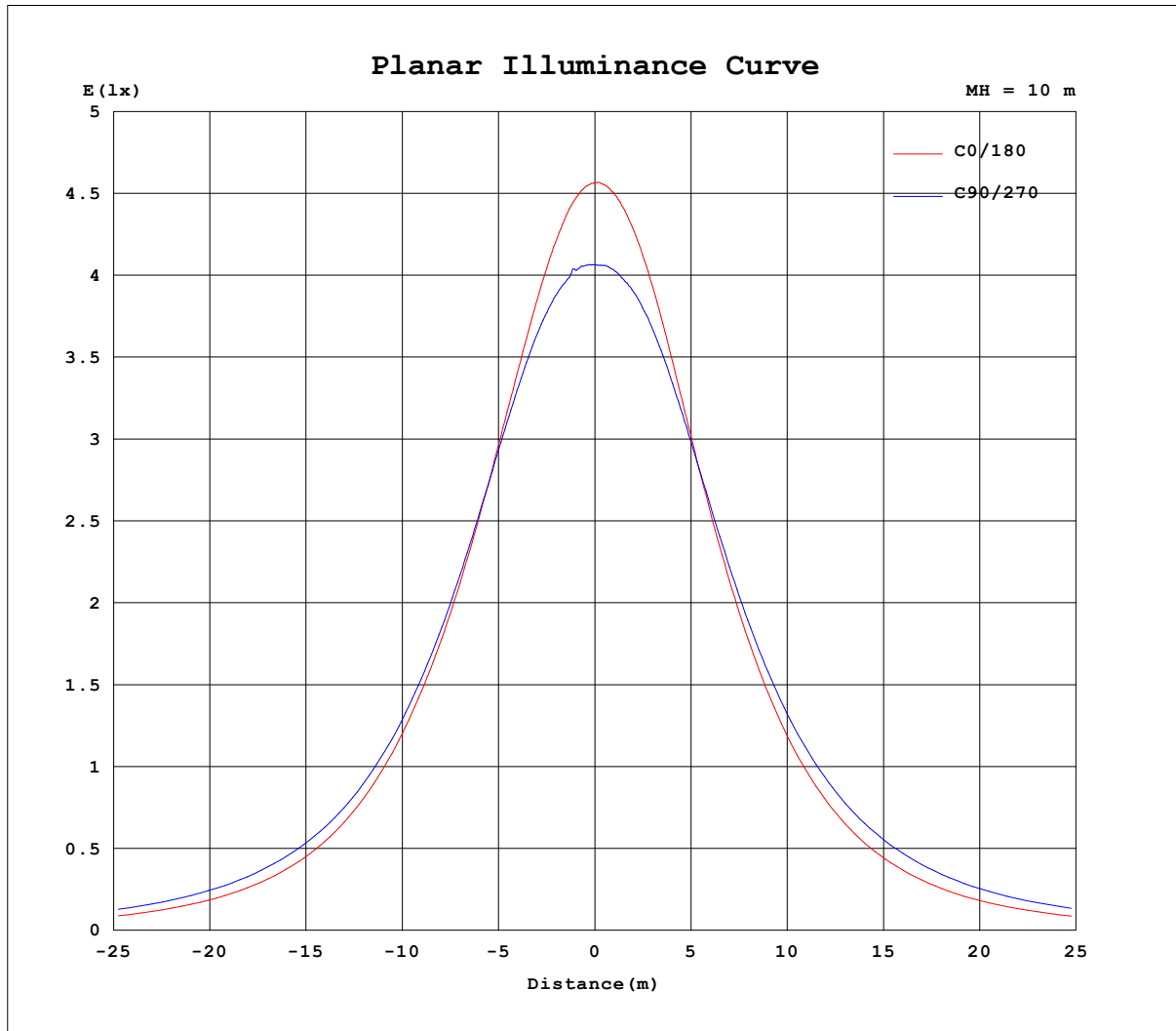
AvgL	cd/m2
L_0~180 (65) av	852
L_0~180 (75) av	785
L_0~180 (85) av	744
L_90~270 (65) av	1334
L_90~270 (75) av	1668
L_90~270 (85) av	3455
L_45 (65) av	1357
L_45 (75) av	1632
L_45 (85) av	3096

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:14 December 2020

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: 14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	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	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422
5	419	420	421	422	424	424	424	424	425	424	423	422	422	422	423	424	424	424	424
10	414	416	420	425	425	425	427	427	426	425	424	420	420	421	424	426	427	428	428
15	407	411	417	425	428	427	429	429	429	427	423	415	416	417	424	429	431	432	433
20	398	403	415	425	428	427	430	430	431	428	422	409	407	410	423	431	435	434	435
25	386	392	410	422	426	424	427	426	430	429	418	400	394	400	419	432	435	432	434
30	373	378	404	418	421	418	421	420	425	426	410	389	378	387	412	431	433	427	429
35	356	363	393	411	414	407	410	409	418	421	399	373	359	371	402	425	426	417	419
40	337	346	378	402	401	393	396	395	404	407	385	355	337	351	388	413	413	403	406
45	314	325	359	387	386	376	379	377	387	390	367	334	311	329	370	396	396	386	388
50	286	302	338	367	365	354	357	356	366	371	344	308	282	302	347	377	376	365	368
55	254	274	314	340	340	330	333	331	341	347	317	277	249	271	320	353	352	341	344
60	219	242	286	314	312	303	306	304	312	317	287	243	215	238	290	323	324	314	318
65	182	206	255	282	280	273	276	274	280	285	252	206	178	202	256	291	293	284	288
70	143	169	218	246	245	240	243	241	245	249	212	168	139	163	216	255	259	252	256
75	103	130	177	206	208	206	209	207	207	209	171	129	100.0	124	175	215	222	218	223
80	65.5	92.4	137	166	171	173	174	172	170	168	131	90.6	62.5	86.5	135	175	184	183	189
85	33.4	58.7	101	129	137	141	143	140	136	132	96.3	57.7	31.4	55.8	102	140	151	152	158
90	17.4	40.3	81.3	108	119	124	126	123	118	113	81.5	42.8	17.2	41.9	86.1	123	133	135	141
95	16.8	36.0	75.7	103	115	119	122	119	114	109	76.3	38.1	16.7	37.2	79.8	117	128	131	137
100	16.4	29.9	64.1	95.5	112	117	120	117	111	101	62.9	29.9	16.1	29.4	64.3	106	123	127	133
105	15.5	23.1	49.0	76.5	92.5	103	106	102	90.1	78.3	44.7	22.5	15.2	22.1	47.7	81.2	99.0	108	117
110	14.5	18.7	43.8	51.9	71.3	80.4	82.6	79.5	67.7	50.4	41.2	18.2	14.1	17.4	44.8	55.5	75.0	84.2	90.5
115	13.2	15.3	32.5	47.5	49.8	51.3	54.6	49.5	45.9	47.7	30.4	14.7	12.9	13.6	33.1	54.1	51.9	54.2	60.9
120	11.8	12.0	23.8	42.5	48.4	46.8	44.7	45.1	45.7	44.6	22.5	11.7	11.5	11.3	23.1	50.5	52.1	50.2	49.2
125	10.3	10.3	15.4	25.6	46.5	47.1	44.7	45.7	44.1	24.8	16.6	10.1	10.00	9.67	17.2	29.0	52.4	51.8	50.9
130	8.66	8.60	8.25	17.6	27.8	38.6	40.4	36.8	25.2	17.1	9.16	8.40	8.39	8.08	9.43	17.8	32.3	43.7	49.4
135	7.07	6.04	4.08	12.3	18.6	22.6	22.8	20.8	16.8	11.6	3.15	6.70	6.71	6.43	2.92	11.7	19.0	24.3	29.8
140	5.37	3.49	1.92	7.49	12.6	16.0	15.9	14.6	11.8	7.21	1.85	4.52	5.06	4.70	1.62	5.40	12.7	15.3	17.2
145	3.87	2.05	1.76	3.96	7.24	10.8	11.0	9.92	6.93	3.33	1.72	2.66	1.32	2.31	1.47	2.33	6.14	9.88	11.8
150	2.41	1.39	1.65	1.86	3.82	6.01	6.32	5.39	3.58	1.79	1.62	1.63	1.19	1.19	1.41	1.52	2.90	4.66	6.00
155	1.33	1.31	1.51	1.72	1.73	1.78	2.14	1.74	1.65	1.64	1.47	1.29	1.10	1.10	1.30	1.43	1.39	1.51	1.79
160	1.24	1.24	1.37	1.52	1.58	1.58	1.62	1.55	1.50	1.45	1.31	1.19	1.05	1.03	1.14	1.25	1.26	1.28	1.34
165	1.12	1.13	1.26	1.36	1.37	1.39	1.39	1.31	1.25	1.26	1.16	1.07	0.95	0.94	1.00	1.12	1.10	1.11	1.16
170	1.05	1.07	1.25	1.32	1.24	1.27	1.25	1.15	1.12	1.17	1.11	0.99	0.92	0.91	0.99	1.03	1.00	0.99	1.10
175	1.00	1.05	1.20	1.26	1.23	1.28	1.27	1.15	1.16	1.21	1.10	0.96	0.91	0.92	1.01	1.09	1.04	0.99	1.10
180	0.99	1.02	1.16	1.25	1.15	1.17	1.31	1.18	1.15	1.26	1.19	1.02	0.99	1.02	1.16	1.25	1.15	1.17	1.31

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:14 December 2020

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:120.08V I:0.2752A P:30.734W PF:0.9301 Freq:59.98Hz Lamp Flux:1995.49x1 lm		
NAME: LVA-36-MCT5-BN	TYPE:	WEIGHT:
SPEC.:30W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) g (DEG)	285	300	315	330	345															
0	422	422	422	422	422															
5	424	424	422	421	420															
10	427	426	424	421	417															
15	431	429	426	418	414															
20	432	431	428	415	409															
25	430	430	426	412	398															
30	425	427	423	407	385															
35	415	421	418	399	369															
40	401	410	409	384	353															
45	384	394	394	365	333															
50	363	373	374	344	309															
55	339	349	348	321	282															
60	313	321	321	294	249															
65	283	290	290	264	213															
70	252	257	254	227	175															
75	218	220	214	187	135															
80	183	184	174	146	96.4															
85	153	151	138	110	63.2															
90	136	133	118	90.0	45.5															
95	132	129	113	84.9	41.0															
100	128	124	104	72.2	34.3															
105	111	103	82.3	53.6	26.5															
110	85.9	78.5	55.6	49.1	20.8															
115	56.4	52.3	53.8	40.0	16.3															
120	50.7	53.9	52.1	27.5	12.2															
125	52.9	56.9	33.6	18.1	10.3															
130	47.0	37.5	20.2	9.59	8.54															
135	27.7	21.7	13.6	4.43	6.11															
140	17.3	14.3	7.46	1.78	3.55															
145	10.8	7.16	3.53	1.60	2.05															
150	5.46	3.45	1.62	1.53	1.31															
155	1.55	1.46	1.48	1.43	1.19															
160	1.30	1.31	1.33	1.28	1.13															
165	1.19	1.21	1.22	1.14	1.05															
170	1.14	1.11	1.17	1.16	1.02															
175	1.11	1.10	1.16	1.15	1.02															
180	1.18	1.15	1.26	1.19	1.02															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:14 December 2020

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: