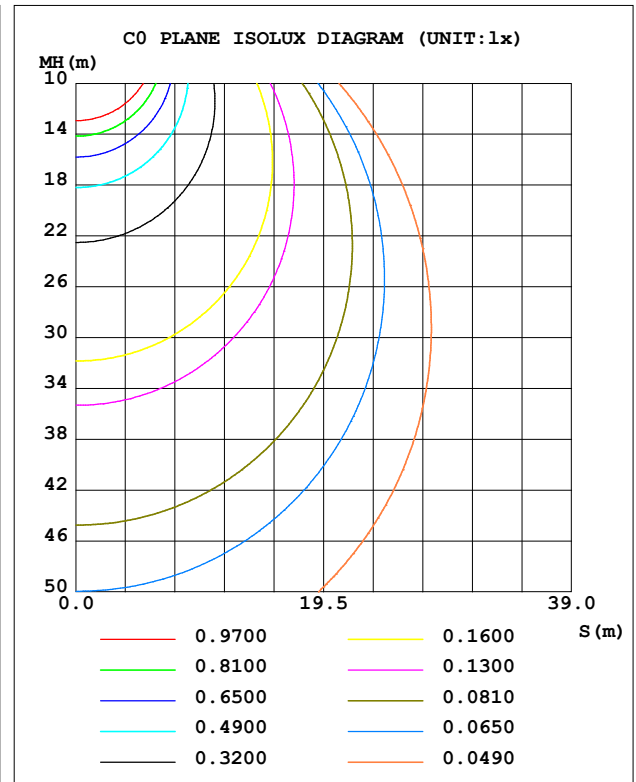
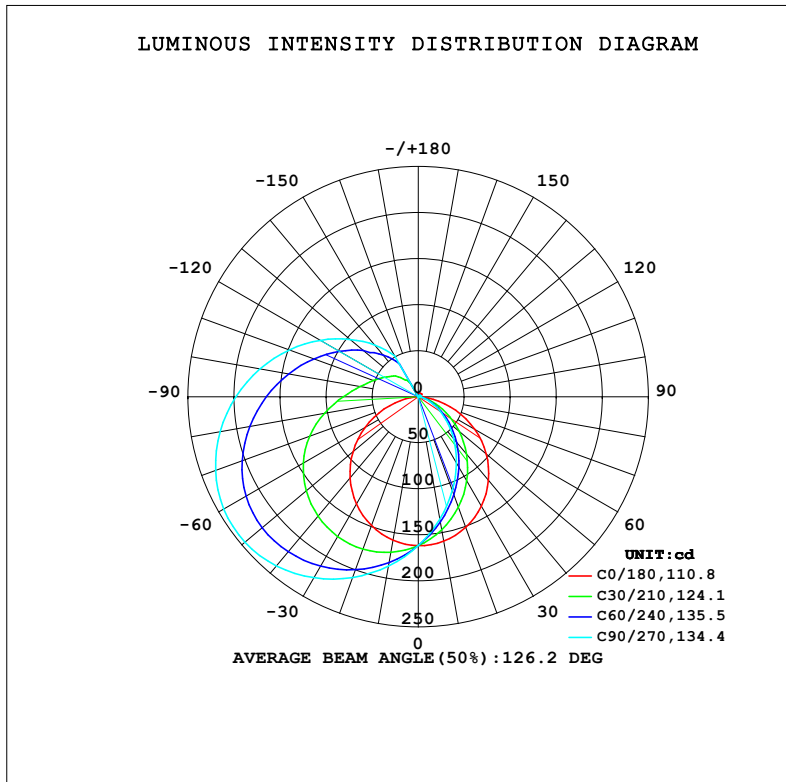


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99LPL12/BL	Imax (cd)	246.0	S/MH (C0/180)	1.24
NOMINAL POWER (W)	12	LOR (%)	112.6	S/MH (C90/270)	2.09
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	878.20	$\eta$ UP, DN (C0-180)	0.6, 18.4
NOMINAL FLUX (lm)	780	CIE CLASS	SEMI-D.	$\eta$ UP, DN (C180-360)	26.4, 67.2
LAMPS INSIDE	1	$\eta$ up (%)	27.0	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	230	$\eta$ down (%)	85.6	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 13 December 2022

$\gamma$  Range: 0 - 150DEG  
 $\gamma$  Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	159.2	141.9	135.1	141.5	158.2	177.6	186.6	178.6	0- 10	15.35	15.35	1.75,1.97
20	150.9	119.3	108.4	118.5	148.9	188.9	208.8	190.9	10- 20	44.53	59.87	6.82,7.68
30	137.2	95.36	83.09	94.37	134.3	195.3	226.9	198.2	20- 30	69.41	129.3	14.7,16.6
40	118.7	71.57	59.96	70.68	115.3	196.6	239.8	200.5	30- 40	87.89	217.2	24.7,27.8
50	96.37	48.93	39.89	48.32	92.46	192.8	245.7	197.6	40- 50	98.57	315.7	36,40.5
60	70.83	29.06	23.43	28.82	66.80	183.5	243.8	188.8	50- 60	100.9	416.7	47.4,53.4
70	43.32	13.52	10.93	13.59	39.54	168.6	234.1	174.2	60- 70	95.52	512.2	58.3,65.7
80	16.59	3.455	2.811	3.649	13.85	148.7	218.3	154.6	70- 80	84.16	596.4	67.9,76.5
90	0.8332	1.349	1.972	1.459	0.4453	127.4	198.1	133.3	80- 90	71.06	667.4	76,85.6
100	1.384	1.500	2.122	1.619	0.6058	107.0	174.6	112.6	90-100	60.21	727.6	82.9,93.3
110	2.535	1.629	2.217	1.753	1.293	88.55	149.2	93.42	100-110	49.70	777.3	88.5,99.7
120	3.562	1.711	2.217	1.845	2.265	72.44	122.9	76.26	110-120	39.15	816.5	93,105
130	4.054	1.744	2.179	1.877	2.973	57.43	97.09	60.73	120-130	29.02	845.5	96.3,108
140	4.371	1.747	2.086	1.879	3.535	44.63	73.30	46.75	130-140	19.75	865.2	98.5,111
150	4.526	1.742	1.983	1.866	3.837	30.39	51.60	31.32	140-150	11.93	877.2	99.9,112
160	0	0	0	0	0	0	0	0	150-160	1.033	878.2	100,113
170	0	0	0	0	0	0	0	0	160-170	0	878.2	100,113
180	0	0	0	0	0	0	0	0	170-180	0	878.2	100,113
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 265.64 lm

%lum = 30.2%  
%lamp = 34.1%

Conical surface Flux(130deg): 465.54 lm

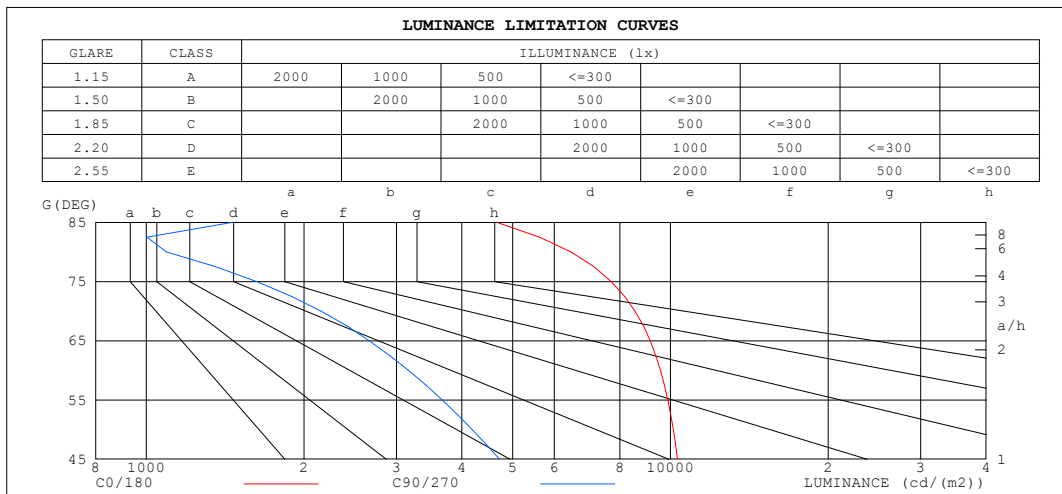
%lum = 53.0%  
%lamp = 59.7%

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:13 December 2022

$\gamma$  Range: 0 - 150DEG  
 $\gamma$  Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4673	1454
80	6454	1092
75	7705	1626
70	8557	2155
65	9146	2664
60	9570	3160
55	9888	3667
50	10129	4184
45	10314	4721

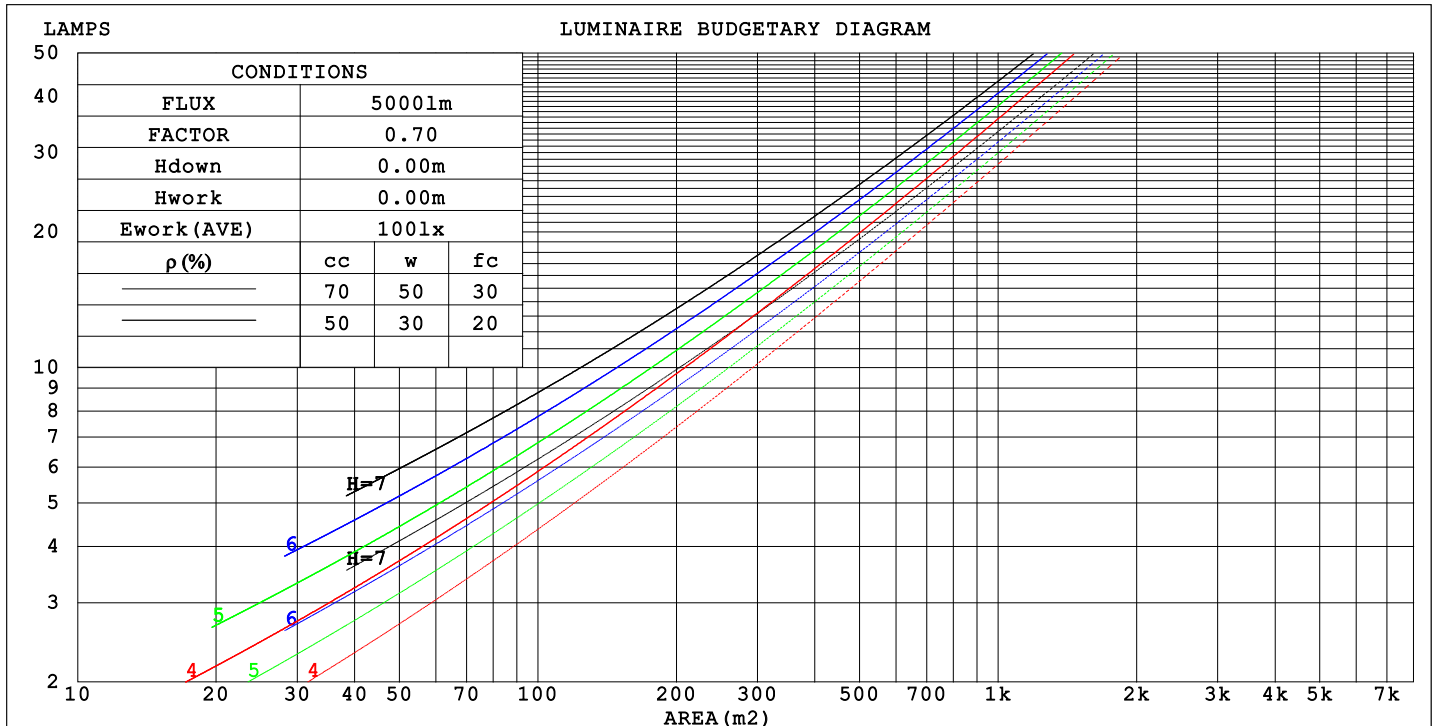
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 13 December 2022

γ Range: 0 - 150DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.28	1.28	1.28	1.21	1.21	1.21	1.10	1.10	1.10	.00	.00	.00	.90	.90	.90	.86														
1.0	1.06	.99	.94	1.00	.95	.90	.90	.86	.82	.81	.78	.75	.73	.70	.68	.63														
2.0	.90	.81	.74	.85	.77	.71	.77	.70	.65	.69	.64	.59	.62	.58	.54	.50														
3.0	.78	.68	.59	.74	.65	.57	.67	.59	.53	.60	.54	.48	.54	.49	.44	.40														
4.0	.68	.58	.49	.65	.55	.48	.59	.50	.44	.53	.46	.41	.47	.42	.37	.34														
5.0	.60	.50	.42	.58	.48	.40	.52	.44	.37	.47	.40	.35	.42	.36	.32	.29														
6.0	.54	.43	.36	.51	.42	.35	.47	.38	.32	.42	.35	.30	.38	.32	.28	.25														
7.0	.49	.38	.31	.46	.37	.30	.42	.34	.28	.38	.31	.26	.35	.29	.24	.21														
8.0	.44	.34	.28	.42	.33	.27	.38	.31	.25	.35	.28	.23	.32	.26	.21	.19														
9.0	.40	.31	.25	.39	.30	.24	.35	.28	.22	.32	.25	.21	.29	.23	.19	.17														
10.0	.37	.28	.22	.35	.27	.21	.32	.25	.20	.30	.23	.19	.27	.21	.17	.15														



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:13 December 2022

γ Range: 0 - 150DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.443	.252	.080	.426	.243	.077	.396	.227	.072	.367	.212	.068	.341	.198	.064	
2.0	.380	.208	.064	.365	.201	.062	.337	.187	.058	.311	.175	.055	.288	.163	.051	
3.0	.336	.179	.053	.322	.173	.052	.297	.161	.049	.274	.150	.046	.252	.139	.043	
4.0	.301	.157	.046	.289	.151	.045	.266	.141	.042	.245	.131	.040	.225	.122	.037	
5.0	.273	.139	.040	.262	.135	.039	.241	.126	.037	.222	.117	.035	.203	.109	.033	
6.0	.250	.125	.036	.240	.121	.035	.221	.113	.033	.203	.105	.031	.186	.098	.029	
7.0	.230	.114	.032	.221	.110	.031	.203	.103	.030	.187	.096	.028	.171	.089	.026	
8.0	.213	.104	.029	.205	.101	.029	.189	.094	.027	.173	.088	.025	.159	.082	.024	
9.0	.199	.096	.027	.191	.093	.026	.176	.087	.025	.162	.081	.023	.148	.075	.022	
10.0	.186	.089	.025	.179	.086	.024	.165	.081	.023	.152	.075	.021	.139	.070	.020	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.420	.420	.420	.359	.359	.359	.245	.245	.245	.141	.141	.141	.045	.045	.045	
1.0	.417	.383	.351	.357	.328	.302	.244	.226	.209	.141	.131	.122	.045	.042	.039	
2.0	.410	.357	.313	.351	.308	.271	.241	.213	.189	.139	.124	.111	.044	.040	.036	
3.0	.401	.339	.289	.344	.292	.251	.236	.203	.176	.136	.119	.104	.044	.039	.034	
4.0	.393	.325	.274	.337	.281	.238	.232	.196	.167	.134	.115	.099	.043	.037	.033	
5.0	.384	.314	.263	.330	.272	.229	.227	.190	.161	.132	.112	.096	.042	.036	.032	
6.0	.376	.306	.255	.323	.265	.222	.223	.185	.157	.129	.109	.093	.042	.036	.031	
7.0	.368	.298	.249	.316	.258	.217	.219	.181	.154	.127	.107	.092	.041	.035	.030	
8.0	.360	.292	.245	.310	.253	.214	.215	.178	.152	.125	.105	.090	.040	.034	.030	
9.0	.353	.287	.242	.304	.249	.211	.211	.175	.150	.123	.103	.089	.040	.034	.030	
10.0	.347	.282	.239	.299	.245	.209	.207	.172	.148	.121	.102	.088	.039	.033	.029	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:13 December 2022

γ Range: 0 - 150DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

NAME: 99LPL12/BL					TYPE:			WEIGHT: 1		
SPEC.:					DIM.: 600 x 200 x 25			SERIAL No.: 0		
MFR.: Elmark Industries JSC					SUR.: Cilinder			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	16.6	17.9	17.2	18.5	19.2	12.7	14.0	13.2	14.6	15.2
3H	18.0	19.2	18.6	19.8	20.5	13.2	14.4	13.8	15.1	15.8
4H	18.5	19.6	19.1	20.3	21.0	13.3	14.5	14.0	15.1	15.9
6H	18.8	19.9	19.5	20.6	21.3	13.3	14.4	14.0	15.1	15.8
8H	18.9	19.9	19.6	20.6	21.4	13.3	14.3	13.9	15.0	15.8
12H	18.9	19.9	19.6	20.6	21.4	13.2	14.3	13.9	14.9	15.7
4H 2H	16.5	17.6	17.1	18.3	19.0	13.1	14.2	13.7	14.9	15.6
3H	17.9	18.9	18.6	19.6	20.4	13.8	14.8	14.4	15.4	16.2
4H	18.4	19.4	19.1	20.0	20.9	13.9	14.8	14.6	15.5	16.4
6H	18.8	19.6	19.5	20.3	21.2	13.9	14.8	14.6	15.5	16.3
8H	18.9	19.6	19.6	20.4	21.2	13.9	14.7	14.6	15.4	16.3
12H	18.9	19.6	19.6	20.4	21.3	13.9	14.6	14.6	15.4	16.3
8H 4H	18.3	19.0	19.0	19.8	20.6	14.0	14.7	14.7	15.5	16.3
6H	18.6	19.3	19.4	20.1	21.0	14.0	14.7	14.8	15.4	16.3
8H	18.7	19.3	19.5	20.1	21.0	14.0	14.6	14.8	15.4	16.3
12H	18.8	19.3	19.6	20.1	21.1	14.1	14.6	14.9	15.4	16.3
12H 4H	18.2	18.9	18.9	19.7	20.5	13.9	14.6	14.7	15.4	16.3
6H	18.6	19.2	19.4	19.9	20.9	14.0	14.6	14.8	15.4	16.3
8H	18.7	19.2	19.5	20.0	20.9	14.0	14.5	14.8	15.3	16.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.6					+ 0.5 / - 0.6				
1.5H	+ 1.4 / - 1.4					+ 0.2 / - 0.4				
2.0H	+ 2.2 / - 2.3					+ 0.6 / - 0.9				

CIE Pub.117, 780.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.9)  
Area: 0.01484 m2

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:13 December 2022

γ Range: 0 - 150DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

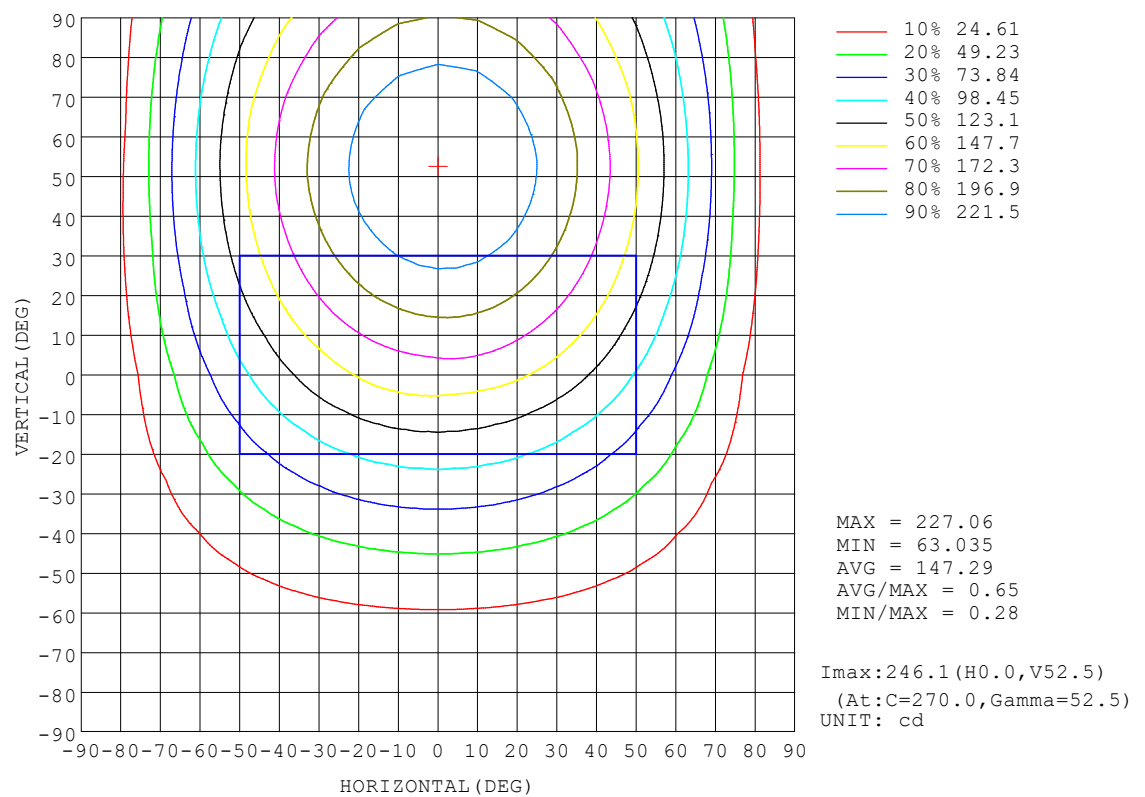
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	37	29	50	36	28	47	35	28	20
0.80	61	46	37	59	45	36	56	43	35	26
1.00	70	55	45	67	53	44	63	53	43	32
1.25	77	63	53	74	61	52	69	58	49	38
1.50	83	69	59	80	67	58	74	63	55	42
2.00	92	79	69	88	76	67	80	71	63	49
2.50	97	85	75	92	82	73	84	76	69	53
3.00	101	90	81	96	87	79	88	80	73	57
4.00	107	97	89	102	93	86	92	86	80	62
5.00	110	102	95	105	97	91	95	89	84	65
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 13 December 2022

$\gamma$  Range: 0 - 150DEG  
 $\gamma$  Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:



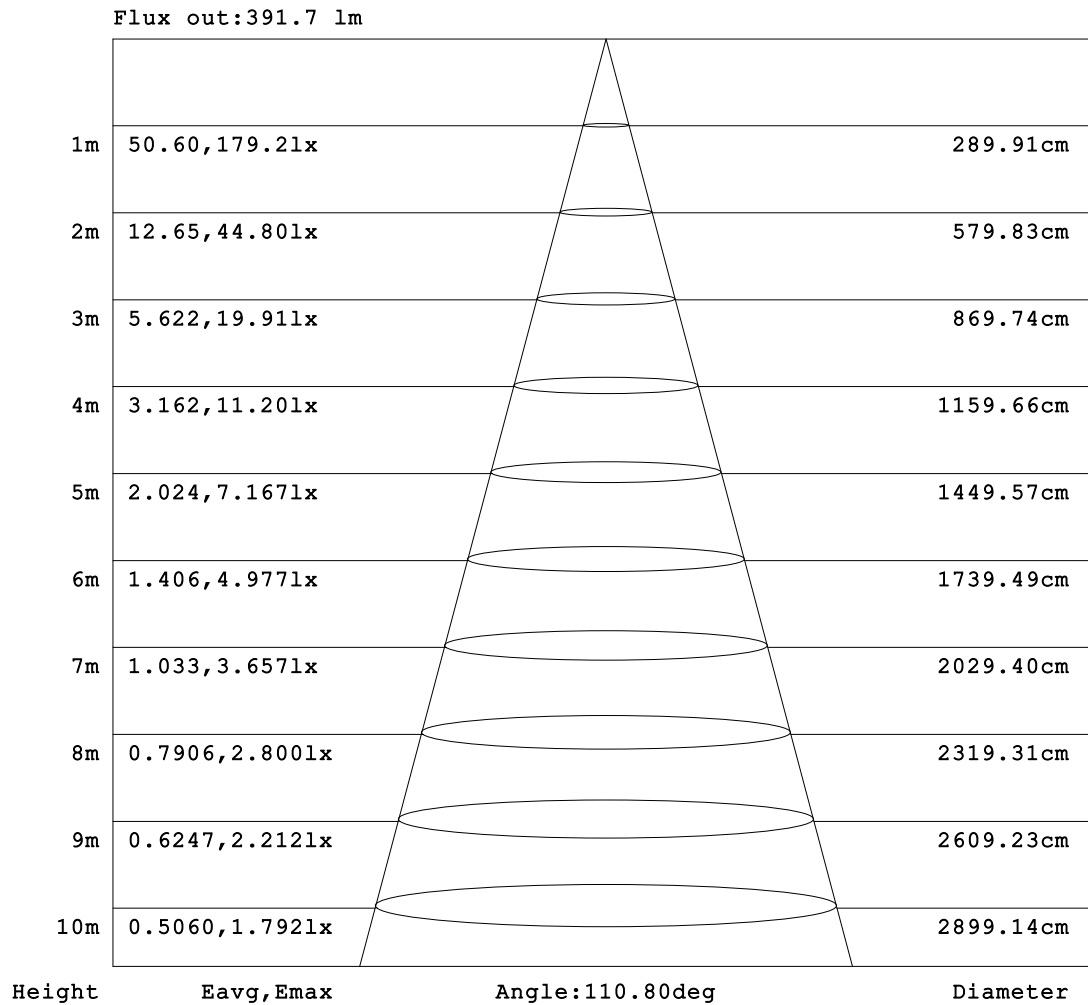
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 13 December 2022

γ Range: 0 - 150DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:



**AAI Figure**

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:



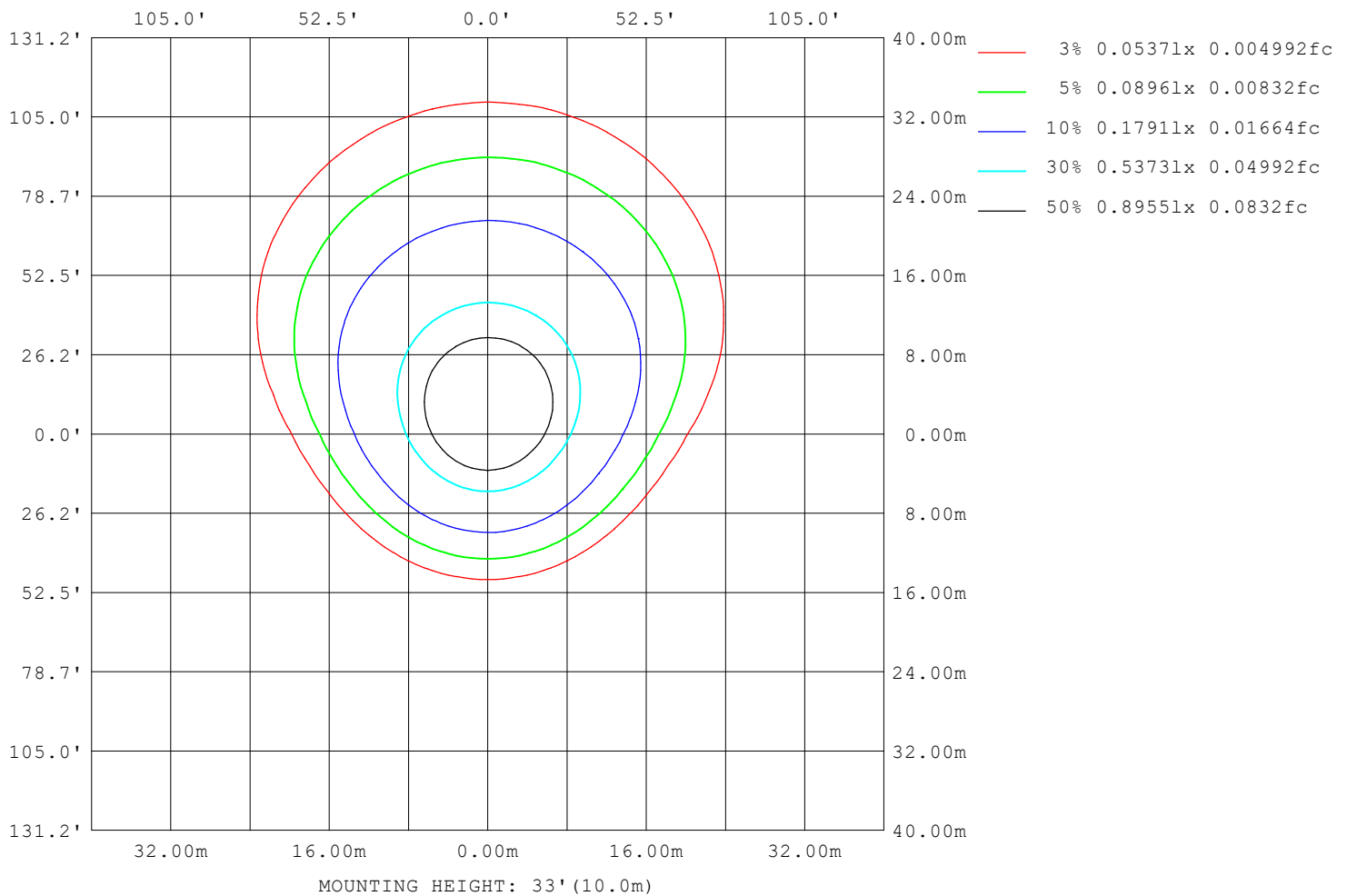
**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 13 December 2022

γ Range: 0 - 150DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 13 December 2022

γ Range: 0 - 150DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

### LED Avg.L Report

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

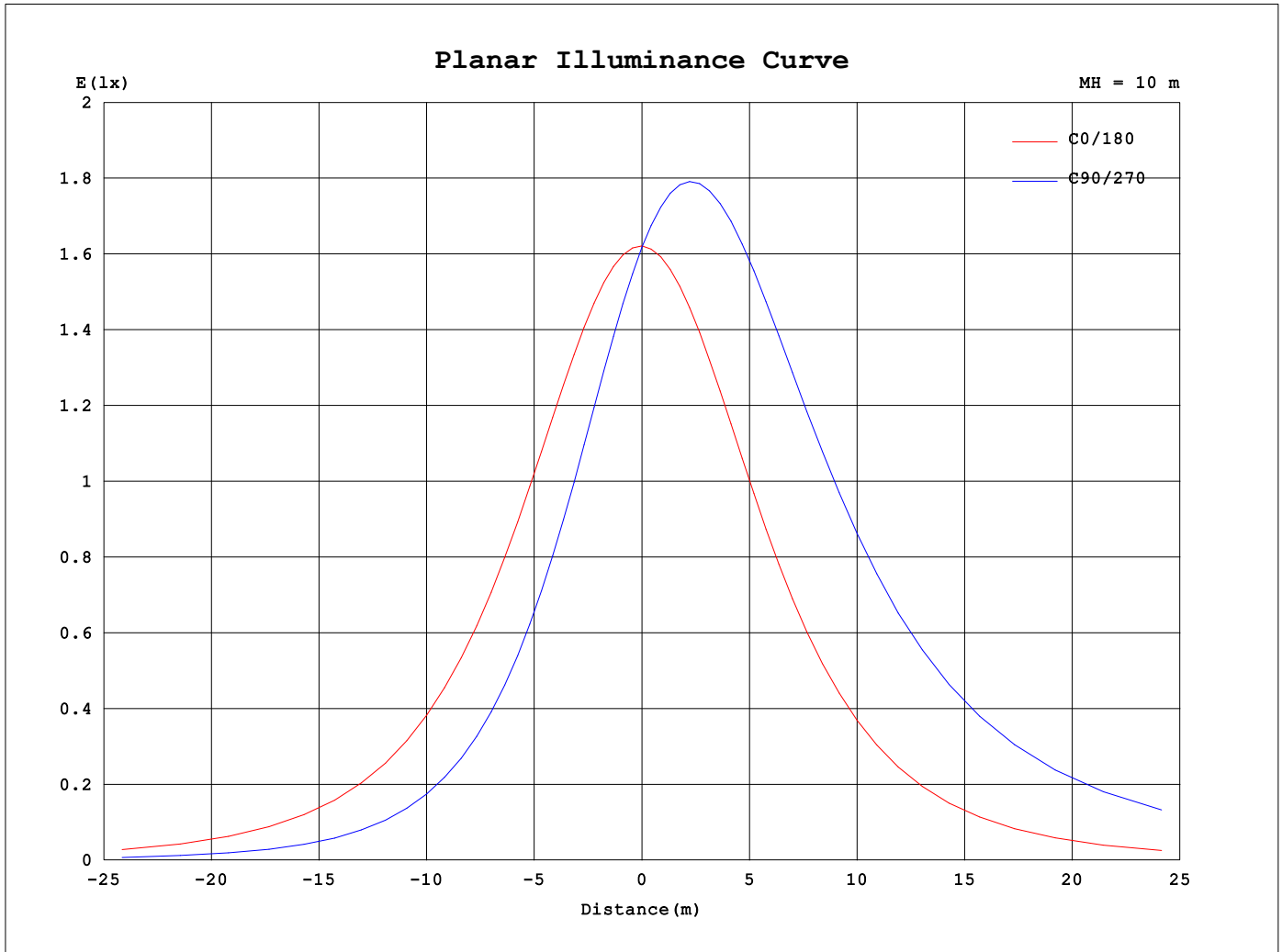
AvgL	cd/m2
L_0~180 (65) av	8805
L_0~180 (75) av	7247
L_0~180 (85) av	3988
L_90~270 (65) av	20456
L_90~270 (75) av	30346
L_90~270 (85) av	81364
L_45 (65) av	15980
L_45 (75) av	22163
L_45 (85) av	55254

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:13 December 2022

γ Range: 0 - 150DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

# Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 13 December 2022

$\gamma$  Range: 0 - 150DEG  
 $\gamma$  Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162
5	161	159	157	155	153	152	150	149	149	148	149	149	150	151	153	155	156	159	161
10	159	155	151	147	143	141	138	137	135	135	135	136	138	140	143	146	150	154	158
15	156	149	143	138	133	129	126	124	122	122	122	123	125	128	132	137	142	148	154
20	151	142	134	128	122	117	113	111	109	108	109	110	113	116	121	127	133	141	149
25	145	134	125	117	110	105	101	97.9	96.0	95.5	95.7	97.5	100.0	104	109	116	123	132	142
30	137	125	114	105	98.1	92.6	88.6	85.5	83.8	83.1	83.7	85.1	87.9	91.8	96.9	104	112	123	134
35	128	115	103	93.7	86.4	80.6	76.5	73.5	71.9	71.2	71.7	73.1	75.9	79.8	85.2	92.2	101	112	125
40	119	104	91.2	81.7	74.4	68.8	64.9	62.1	60.6	60.0	60.5	61.8	64.4	68.1	73.3	80.3	89.1	101	115
45	108	92.0	79.3	69.6	62.6	57.4	53.9	51.4	50.1	49.5	49.9	51.1	53.4	56.8	61.7	68.3	77.3	89.3	104
50	96.4	79.6	66.9	57.7	51.2	46.6	43.5	41.5	40.3	39.9	40.2	41.3	43.2	46.2	50.5	56.5	65.0	76.9	92.5
55	84.0	66.7	54.5	46.1	40.5	36.6	34.1	32.4	31.6	31.2	31.5	32.3	33.9	36.3	39.9	45.2	52.8	64.1	79.9
60	70.8	53.6	42.3	35.1	30.6	27.6	25.6	24.4	23.7	23.4	23.7	24.3	25.6	27.4	30.2	34.5	41.0	51.3	66.8
65	57.2	40.6	30.8	25.2	21.8	19.6	18.2	17.3	16.8	16.7	16.8	17.4	18.2	19.6	21.6	24.8	29.9	38.6	53.2
70	43.3	28.0	20.4	16.4	14.2	12.8	11.9	11.3	11.0	10.9	11.0	11.4	12.0	12.9	14.2	16.3	19.9	26.6	39.5
75	29.5	16.6	11.6	9.39	8.11	7.33	6.79	6.45	6.28	6.24	6.31	6.55	6.92	7.49	8.26	9.49	11.5	15.8	26.1
80	16.6	7.48	5.16	4.22	3.64	3.28	3.03	2.89	2.82	2.81	2.86	2.98	3.17	3.46	3.84	4.41	5.29	7.26	13.8
85	6.03	1.92	1.44	1.22	1.24	1.40	1.59	1.74	1.83	1.88	1.85	1.80	1.67	1.50	1.39	1.38	1.61	2.06	4.29
90	0.83	0.59	0.76	1.01	1.22	1.48	1.66	1.83	1.91	1.97	1.93	1.88	1.74	1.58	1.33	1.11	0.86	0.68	0.45
95	0.93	0.65	0.83	1.08	1.30	1.55	1.74	1.92	2.00	2.06	2.02	1.97	1.82	1.67	1.42	1.19	0.93	0.75	0.50
100	1.38	0.72	0.90	1.16	1.37	1.62	1.81	1.98	2.06	2.12	2.09	2.05	1.90	1.74	1.50	1.28	1.01	0.82	0.61
105	1.93	0.80	0.98	1.23	1.45	1.69	1.87	2.04	2.12	2.18	2.14	2.10	1.96	1.81	1.57	1.36	1.10	0.91	0.89
110	2.54	0.88	1.05	1.30	1.51	1.75	1.92	2.08	2.16	2.22	2.18	2.14	2.01	1.86	1.64	1.44	1.18	0.99	1.29
115	3.17	0.96	1.12	1.36	1.56	1.79	1.95	2.09	2.18	2.22	2.21	2.16	2.04	1.91	1.70	1.51	1.26	1.08	1.79
120	3.56	1.04	1.20	1.41	1.60	1.82	1.96	2.09	2.19	2.22	2.21	2.16	2.06	1.95	1.74	1.57	1.34	1.17	2.26
125	3.83	1.12	1.26	1.47	1.64	1.82	1.97	2.08	2.19	2.20	2.21	2.15	2.07	1.95	1.78	1.62	1.41	1.26	2.64
130	4.05	1.19	1.32	1.51	1.66	1.82	1.97	2.06	2.17	2.18	2.20	2.14	2.07	1.95	1.80	1.67	1.48	1.34	2.97
135	4.23	1.35	1.37	1.54	1.68	1.82	1.97	2.03	2.13	2.14	2.17	2.10	2.07	1.94	1.82	1.70	1.54	1.41	3.27
140	4.37	1.70	1.41	1.58	1.69	1.81	1.94	1.99	2.09	2.09	2.13	2.07	2.04	1.93	1.83	1.73	1.58	1.48	3.54
145	4.48	2.09	1.46	1.60	1.70	1.80	1.92	1.95	2.04	2.03	2.07	2.02	2.00	1.91	1.83	1.75	1.62	1.71	3.76
150	4.53	2.48	1.50	1.60	1.70	1.78	1.88	1.91	1.98	1.98	2.01	1.99	1.96	1.90	1.83	1.76	1.65	2.03	3.84
155	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	0.00	0.00	0.00	0.00	0.00
160	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	0.00	0.00	0.00	0.00	0.00
165	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	0.00	0.00	0.00	0.00	0.00
170	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	0.00	0.00	0.00	0.00	0.00
175	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	0.00	0.00	0.00	0.00	0.00
180	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	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:13 December 2022

γ Range: 0 - 150DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 99LPL12/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 200 x 25	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Cilinder	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162		
5	163	165	167	169	171	173	173	174	174	174	173	173	171	170	168	166	163		
10	162	167	171	176	179	183	185	186	187	187	185	183	180	177	173	168	164		
15	161	168	174	181	187	192	195	198	198	198	196	193	188	183	176	170	163		
20	157	167	176	185	193	200	204	208	209	209	205	201	195	187	178	169	160		
25	153	165	176	188	198	207	213	217	218	218	214	208	200	190	179	168	156		
30	147	162	175	189	201	212	220	226	227	226	221	214	204	192	179	165	150		
35	140	157	173	189	204	217	226	232	234	233	227	219	207	193	177	161	144		
40	132	151	169	188	205	220	230	238	240	239	232	223	209	192	174	155	136		
45	122	144	165	186	205	221	233	241	244	243	235	224	209	191	170	149	127		
50	112	136	159	183	203	221	234	243	246	244	236	225	208	187	165	141	117		
55	101	126	152	178	200	220	233	243	246	244	236	223	205	183	158	132	106		
60	88.6	116	144	172	195	216	230	241	244	242	233	219	200	177	151	123	94.5		
65	76.1	106	135	164	189	211	226	237	240	238	229	214	194	170	142	113	82.5		
70	62.8	94.2	125	156	181	204	219	231	234	232	222	207	187	162	133	101	69.6		
75	49.4	82.2	115	146	172	195	212	223	227	225	214	199	177	152	122	89.7	56.4		
80	36.2	69.9	103	135	162	186	203	215	218	216	206	190	168	142	111	77.6	43.4		
85	24.3	58.0	91.8	124	152	176	193	205	209	206	196	180	157	131	99.2	65.9	31.6		
90	15.5	47.7	81.5	114	141	165	182	194	198	196	185	169	147	120	88.6	55.5	22.5		
95	11.4	40.0	72.3	103	130	154	171	183	187	184	174	158	136	110	79.5	47.4	17.4		
100	10.1	34.6	64.3	94.0	120	143	159	171	175	172	162	147	125	100.0	71.1	41.3	15.0		
105	9.80	30.9	57.6	85.2	110	132	148	159	162	160	150	136	115	90.8	63.8	36.8	14.0		
110	9.88	28.3	51.9	77.2	99.9	121	135	146	149	148	138	124	105	82.3	57.5	33.4	13.5		
115	10.1	26.2	47.1	69.8	90.6	110	123	133	136	135	126	113	94.6	74.3	52.0	30.6	13.2		
120	10.4	24.6	42.9	63.0	81.9	99.0	111	120	123	121	113	102	85.5	67.0	47.1	28.3	13.1		
125	10.2	22.9	38.7	56.2	73.3	88.5	99.5	108	110	109	101	91.0	76.5	60.1	42.6	26.3	12.7		
130	8.40	20.9	35.2	50.3	64.6	78.4	88.3	95.3	97.1	96.1	89.5	80.5	67.9	53.6	38.4	24.4	11.8		
135	7.89	18.8	30.6	44.7	57.0	67.8	77.4	83.3	85.1	83.9	78.5	70.5	59.7	47.4	34.3	21.1	9.09		
140	7.42	15.3	25.1	39.5	49.8	59.1	65.5	71.8	73.3	72.3	67.7	61.0	51.9	41.6	28.3	17.4	8.37		
145	6.98	13.6	22.2	33.2	42.9	50.6	55.8	60.9	62.1	61.2	57.5	52.0	44.5	34.0	23.1	14.6	7.72		
150	6.52	9.72	17.5	25.8	34.9	41.5	46.9	48.9	51.6	50.9	48.0	42.8	35.6	27.0	18.7	10.4	7.02		
155	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	0.00	0.00	0.00		
160	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	0.00	0.00	0.00		
165	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	0.00	0.00	0.00		
170	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	0.00	0.00	0.00		
175	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	0.00	0.00	0.00		
180	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	0.00	0.00	0.00		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:13 December 2022

γ Range: 0 - 150DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: