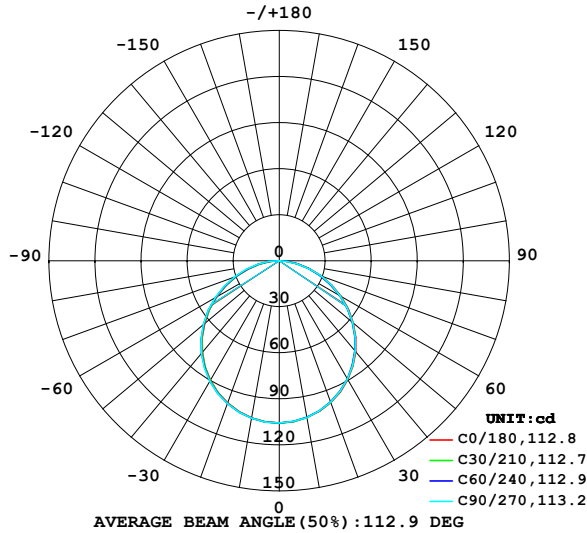


LUMINAIRE PHOTOMETRIC TEST REPORT

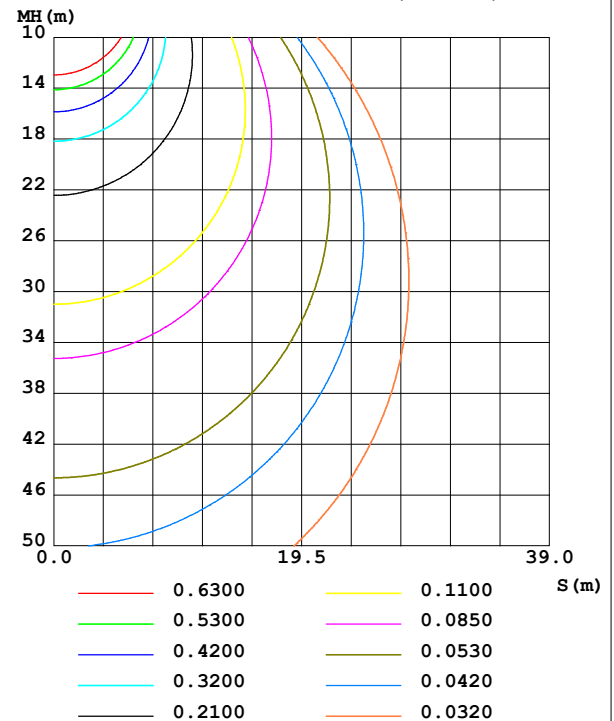
NAME: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99XLED609	I _{max} (cd)	105.8	S/MH (C0/180)	1.26
NOMINAL POWER (W)	6	LOR (%)	92.8	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	306.25	η UP, DN (C0-180)	0.0, 45.8
NOMINAL FLUX (lm)	330	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	92.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	103.8	103.7	103.7	103.8	104.0	104.2	104.2	104.1	0- 10	10.01	10.01	3.27,3.03
20	98.33	97.98	98.01	98.26	98.63	98.94	99.07	98.85	10- 20	28.69	38.70	12.6,11.7
30	89.44	88.92	88.99	89.35	89.86	90.31	90.53	90.23	20- 30	43.56	82.25	26.9,24.9
40	77.52	76.89	76.97	77.41	78.02	78.59	78.89	78.48	30- 40	52.62	134.9	44,40.9
50	63.01	62.28	62.39	62.90	63.56	64.21	64.60	64.15	40- 50	54.68	189.6	61.9,57.4
60	46.52	45.73	45.91	46.45	47.05	47.77	48.28	47.83	50- 60	49.47	239.0	78,72.4
70	29.10	28.31	28.60	29.13	29.60	30.36	31.01	30.51	60- 70	37.90	276.9	90.4,83.9
80	12.52	11.85	12.17	12.62	13.06	13.67	14.22	13.88	70- 80	22.34	299.3	97.7,90.7
90	0.1696	0.1597	0.1606	0.1592	0.1769	0.2405	0.3609	0.1688	80- 90	6.717	306.0	99.9,92.7
100	0.2152	0.2261	0.2395	0.2272	0.1934	0.1852	0.1932	0.1999	90-100	0.2057	306.2	100,92.8
110	0	0	0	0	0	0	0	0	100-110	0.0564	306.2	100,92.8
120	0	0	0	0	0	0	0	0	110-120	0	306.2	100,92.8
130	0	0	0	0	0	0	0	0	120-130	0	306.2	100,92.8
140	0	0	0	0	0	0	0	0	130-140	0	306.2	100,92.8
150	0	0	0	0	0	0	0	0	140-150	0	306.2	100,92.8
160	0	0	0	0	0	0	0	0	150-160	0	306.2	100,92.8
170	0	0	0	0	0	0	0	0	160-170	0	306.2	100,92.8
180	0	0	0	0	0	0	0	0	170-180	0	306.2	100,92.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 162.42 lm

%lum = 53.0%
%lamp = 49.2%

Conical surface Flux(130deg): 259.74 lm

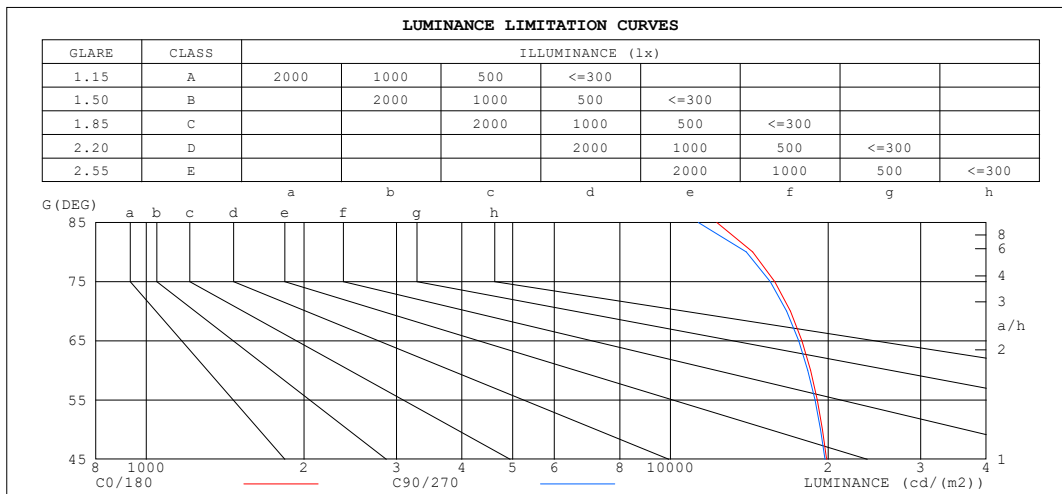
%lum = 84.8%
%lamp = 78.7%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
 γ Interval: 5.0DEG
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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12261	11290
80	14341	13952
75	15802	15495
70	16922	16648
65	17802	17558
60	18507	18278
55	19062	18863
50	19497	19322
45	19848	19697

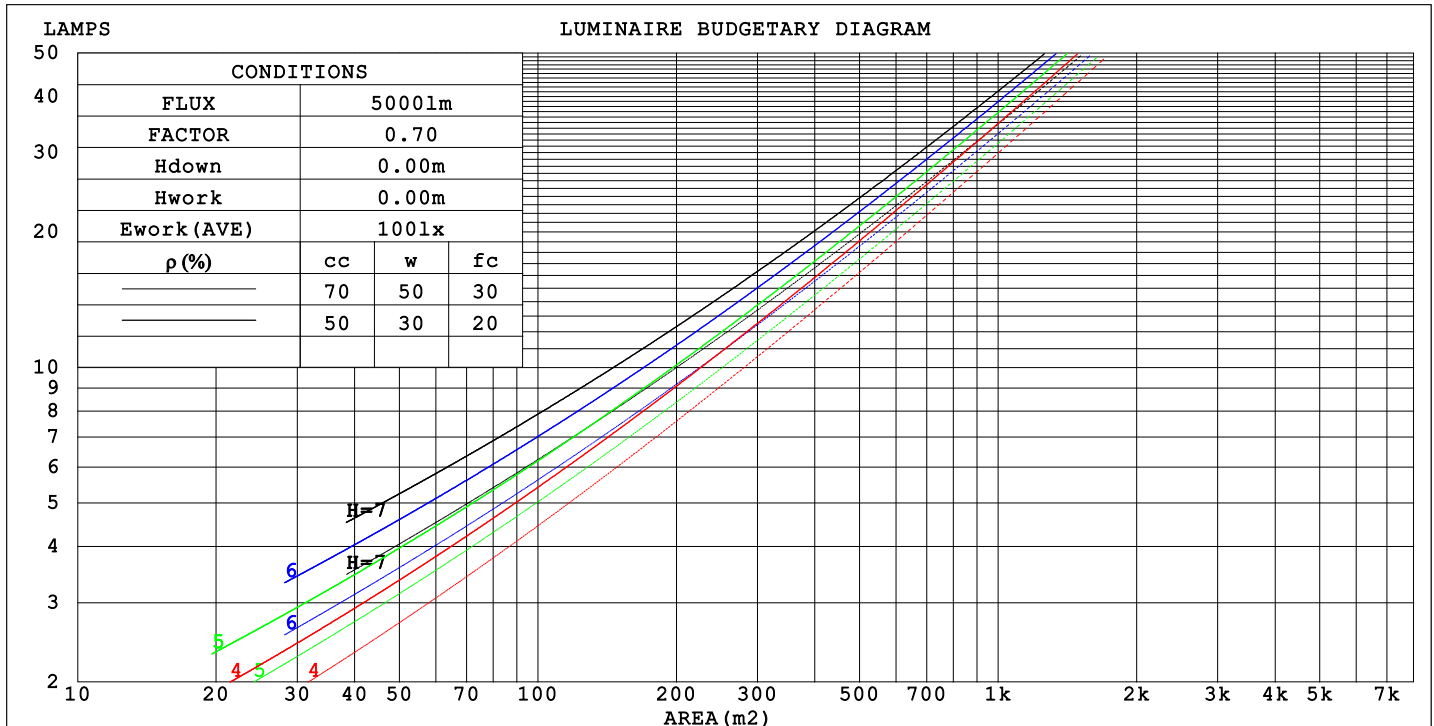
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	.99	.99	.99	.95	.95	.95	.93
1.0	.96	.92	.88	.94	.90	.87	.90	.87	.84	.86	.84	.82	.83	.81	.79	.77
2.0	.84	.77	.72	.82	.76	.71	.79	.74	.69	.75	.71	.68	.73	.69	.66	.64
3.0	.73	.66	.59	.72	.65	.59	.69	.63	.58	.66	.61	.57	.64	.60	.56	.54
4.0	.65	.57	.50	.64	.56	.50	.61	.55	.49	.59	.53	.49	.57	.52	.48	.46
5.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.51	.46	.42	.40
6.0	.52	.44	.38	.51	.43	.37	.49	.42	.37	.48	.42	.37	.46	.41	.36	.35
7.0	.47	.39	.33	.46	.39	.33	.45	.38	.33	.44	.37	.33	.42	.37	.32	.30
8.0	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
9.0	.39	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24
10.0	.36	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.24	.33	.28	.24	.22



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	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	.292	.166	.053	.286	.163	.052	.273	.157	.050	.262	.151	.048	.251	.146	.047	
2.0	.274	.150	.046	.268	.148	.045	.257	.143	.044	.247	.138	.043	.238	.134	.042	
3.0	.253	.134	.040	.247	.133	.040	.238	.129	.039	.229	.125	.038	.221	.122	.038	
4.0	.233	.121	.036	.228	.119	.035	.220	.116	.035	.212	.114	.034	.204	.111	.034	
5.0	.215	.110	.032	.211	.108	.032	.203	.106	.031	.196	.104	.031	.190	.101	.030	
6.0	.199	.100	.029	.196	.099	.028	.189	.097	.028	.183	.095	.028	.177	.093	.028	
7.0	.185	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.165	.086	.025	
8.0	.173	.085	.024	.170	.084	.024	.165	.082	.023	.160	.081	.023	.155	.079	.023	
9.0	.162	.078	.022	.159	.078	.022	.155	.076	.022	.150	.075	.022	.146	.074	.021	
10.0	.152	.073	.020	.150	.072	.020	.146	.071	.020	.141	.070	.020	.138	.069	.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	.177	.177	.177	.152	.152	.152	.103	.103	.103	.059	.059	.059	.019	.019	.019	
1.0	.168	.145	.125	.144	.125	.108	.098	.086	.074	.057	.050	.043	.018	.016	.014	
2.0	.161	.123	.091	.138	.106	.079	.094	.073	.055	.054	.043	.032	.017	.014	.011	
3.0	.154	.107	.069	.132	.092	.060	.090	.064	.042	.052	.037	.025	.017	.012	.008	
4.0	.147	.094	.055	.126	.082	.047	.086	.057	.033	.050	.033	.020	.016	.011	.006	
5.0	.140	.085	.044	.120	.073	.038	.083	.051	.027	.048	.030	.016	.015	.010	.005	
6.0	.133	.077	.037	.114	.067	.032	.079	.047	.023	.046	.027	.013	.015	.009	.004	
7.0	.127	.071	.031	.109	.061	.027	.075	.043	.019	.044	.025	.012	.014	.008	.004	
8.0	.121	.065	.027	.104	.057	.024	.072	.040	.017	.042	.023	.010	.014	.008	.003	
9.0	.115	.061	.024	.099	.053	.021	.069	.037	.015	.040	.022	.009	.013	.007	.003	
10.0	.110	.057	.021	.094	.049	.019	.066	.035	.013	.038	.020	.008	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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: 99XLED609					TYPE: 99XLED609			WEIGHT: 1		
SPEC.:					DIM.: F 0.12 x 0.021			SERIAL No.: 0		
MFR.: Elmark Industries JSC					SUR.: cylinder			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	26.9	28.4	27.2	28.6	28.8	26.8	28.4	27.1	28.6	28.8
3H	28.4	29.8	28.7	30.0	30.3	28.3	29.7	28.6	30.0	30.2
4H	29.0	30.3	29.3	30.6	30.8	28.9	30.3	29.2	30.5	30.8
6H	29.4	30.7	29.7	31.0	31.2	29.3	30.6	29.7	30.9	31.1
8H	29.5	30.7	29.9	31.0	31.3	29.4	30.6	29.7	30.9	31.2
12H	29.6	30.8	29.9	31.1	31.4	29.4	30.6	29.8	30.9	31.2
4H 2H	27.5	28.8	27.8	29.1	29.3	27.4	28.8	27.8	29.0	29.3
3H	29.2	30.3	29.5	30.6	30.9	29.1	30.3	29.5	30.6	30.9
4H	29.9	30.9	30.2	31.3	31.6	29.8	30.9	30.2	31.2	31.5
6H	30.4	31.4	30.8	31.7	32.1	30.3	31.3	30.7	31.6	32.0
8H	30.5	31.4	31.0	31.8	32.2	30.4	31.3	30.9	31.7	32.1
12H	30.7	31.5	31.1	31.9	32.3	30.5	31.4	31.0	31.7	32.2
8H 4H	30.1	31.0	30.5	31.4	31.8	30.1	31.0	30.5	31.3	31.7
6H	30.8	31.5	31.2	31.9	32.3	30.7	31.4	31.1	31.8	32.3
8H	31.0	31.6	31.4	32.1	32.5	30.9	31.5	31.3	32.0	32.4
12H	31.2	31.7	31.6	32.2	32.7	31.0	31.6	31.5	32.1	32.5
12H 4H	30.1	30.9	30.5	31.3	31.7	30.1	30.9	30.5	31.3	31.7
6H	30.8	31.5	31.3	31.9	32.3	30.7	31.4	31.2	31.8	32.3
8H	31.1	31.6	31.5	32.1	32.6	31.0	31.5	31.4	32.0	32.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 330.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.9)
Area: 0.005024 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

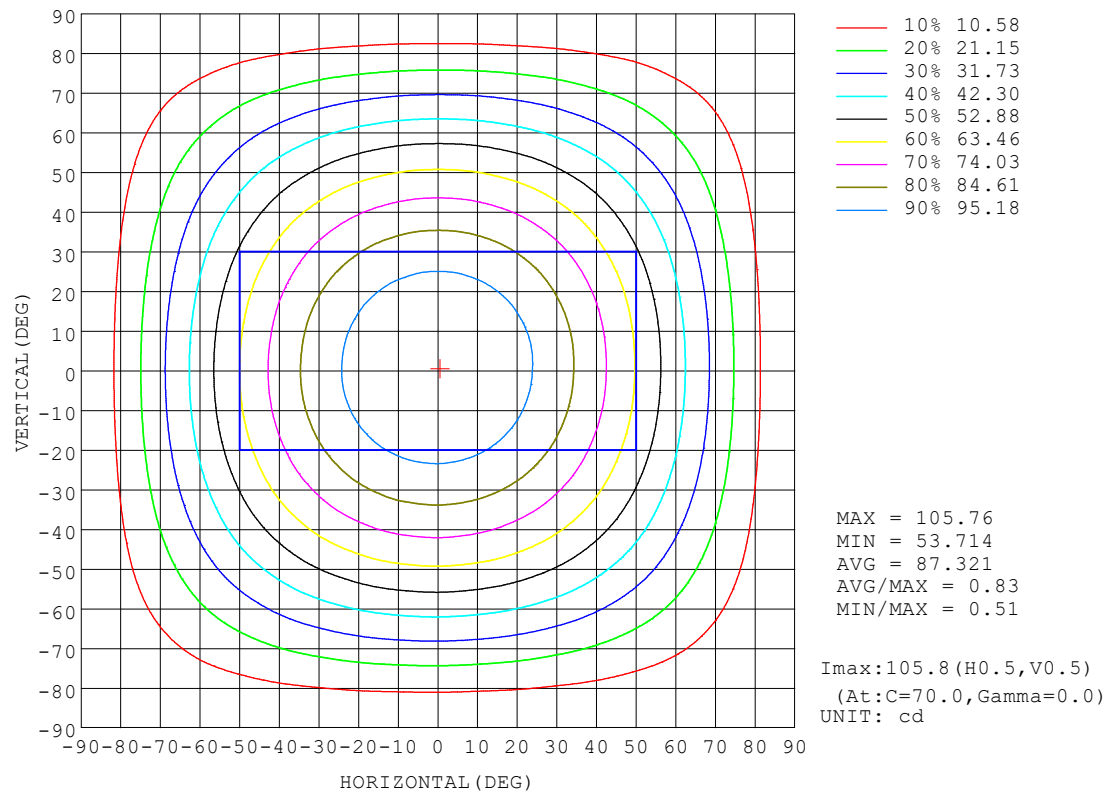
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	42	36	52	42	36	51	42	35	29
0.80	62	51	45	61	51	44	60	50	44	38
1.00	70	60	53	69	59	53	67	61	52	46
1.25	77	67	60	75	66	60	73	65	59	52
1.50	81	72	66	80	71	65	77	70	64	57
2.00	88	80	74	86	79	73	83	77	72	64
2.50	91	84	78	90	83	78	86	80	76	68
3.00	95	88	83	93	87	82	89	84	80	72
4.00	98	93	89	96	91	87	92	88	85	77
5.00	101	96	92	98	94	91	94	91	88	79
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: HIGH
Temperature: 25.3°C
Operators:
Test Date: 05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

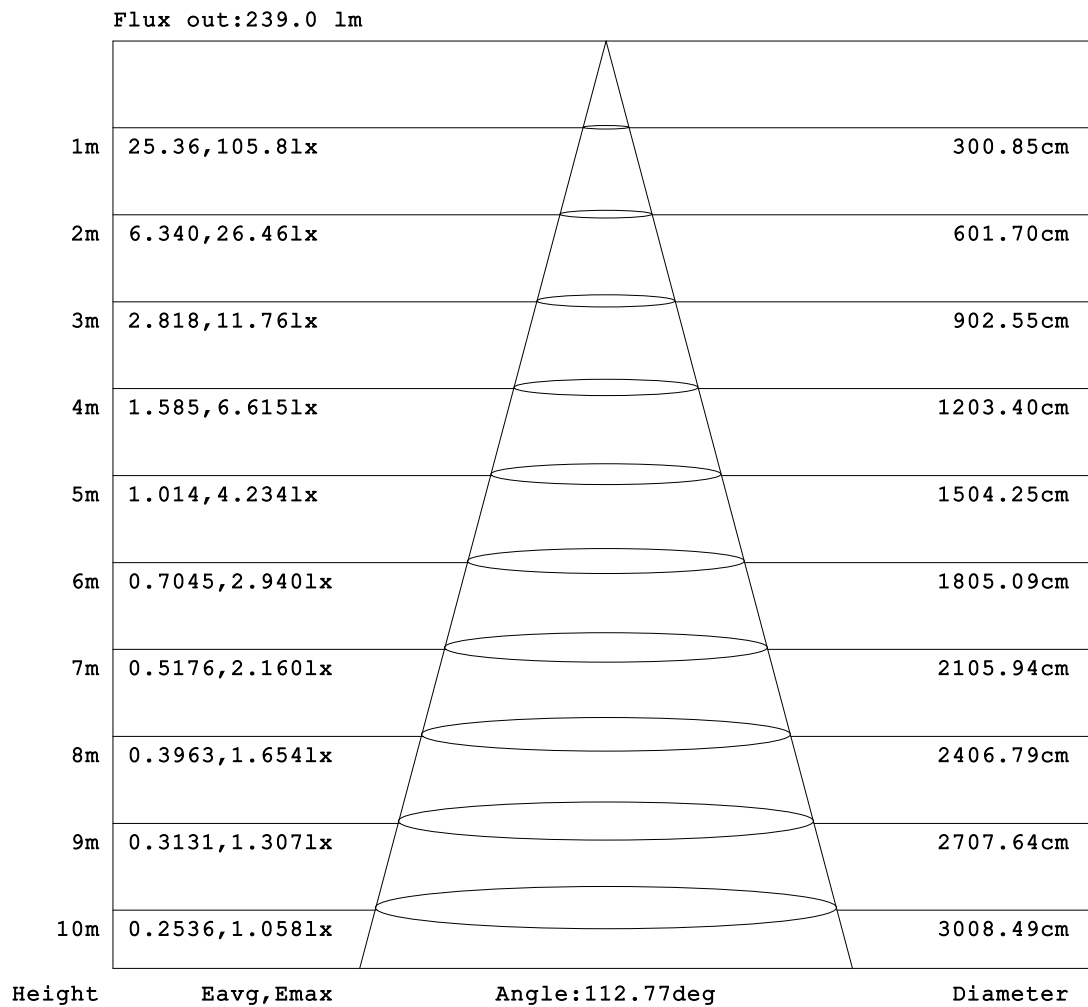


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:



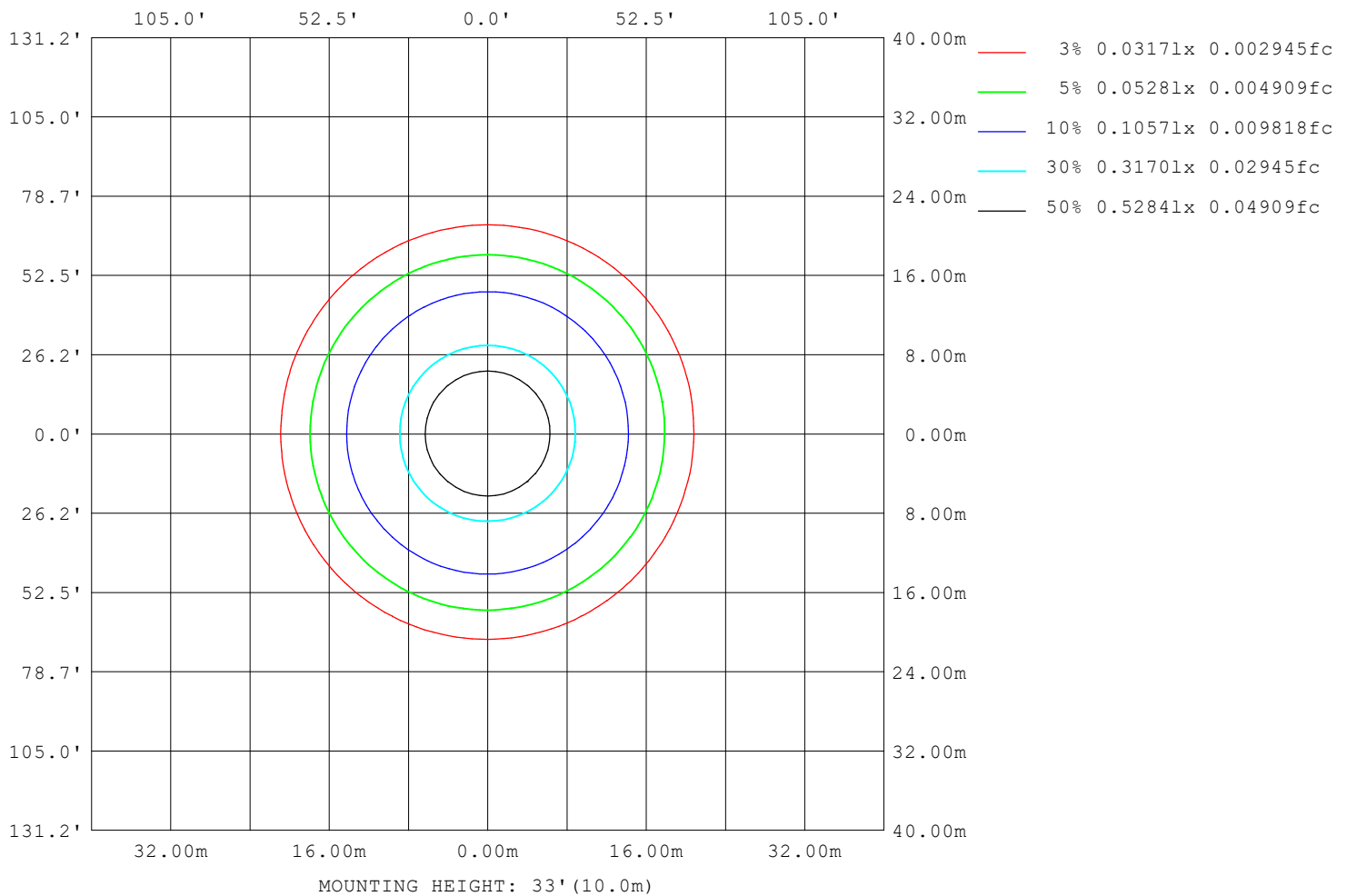
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 05 August 2022

γ Range: 0 - 100DEG
 γ Interval: 5.0DEG
 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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

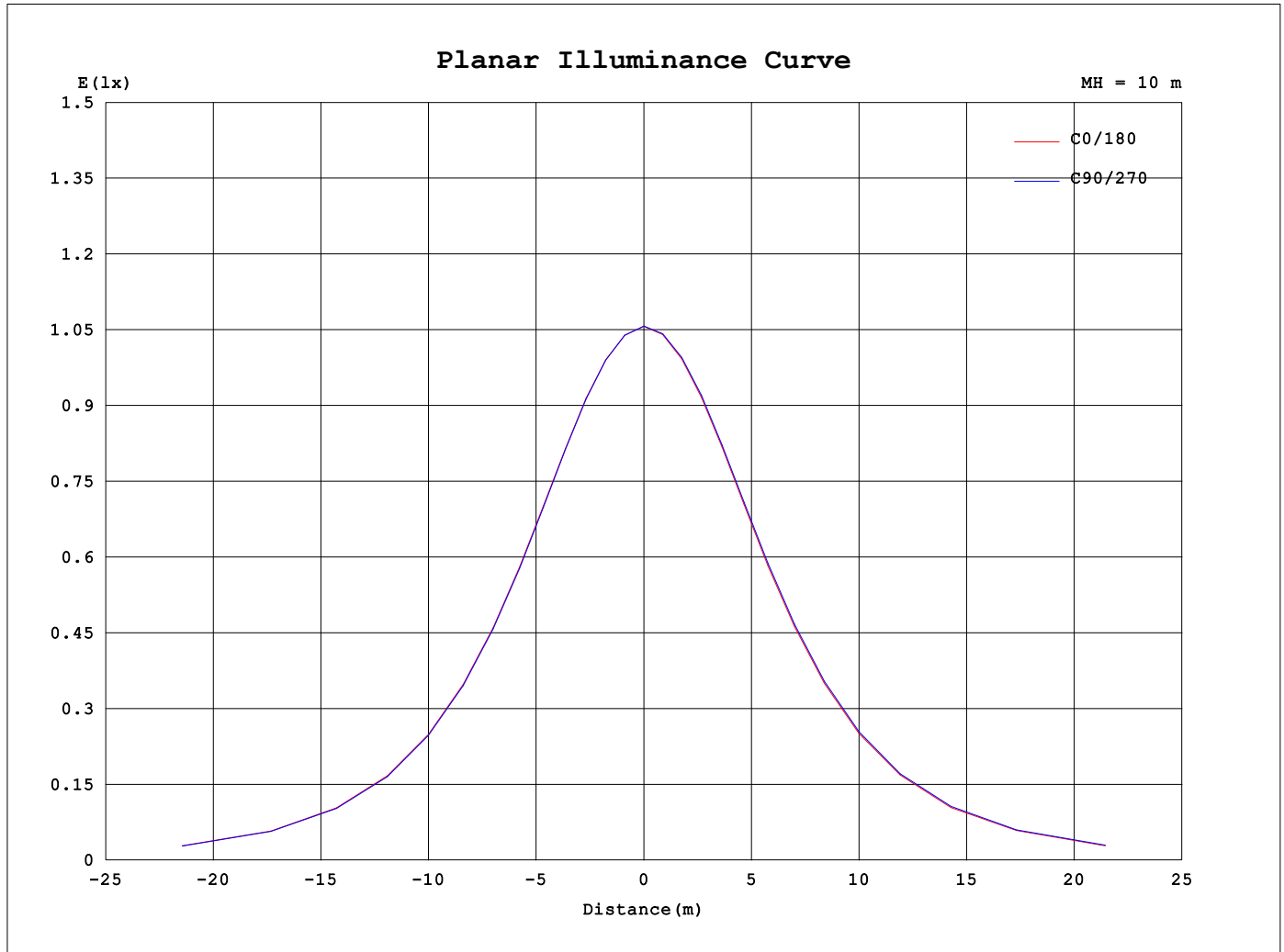
AvgL	cd/m2
L_0~180 (65) av	17939
L_0~180 (75) av	16007
L_0~180 (85) av	12833
L_90~270 (65) av	18121
L_90~270 (75) av	16375
L_90~270 (85) av	13378
L_45 (65) av	18036
L_45 (75) av	16187
L_45 (85) av	13122

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 05 August 2022

γ Range: 0 - 100DEG
 γ Interval: 5.0DEG
 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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	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	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
10	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
15	102	101	101	101	101	101	101	101	101	101	101	101	101	101	101	102	102	102	102
20	98.3	98.3	98.1	98.1	98.0	98.0	97.9	97.9	97.9	98.0	98.0	98.1	98.1	98.2	98.3	98.4	98.4	98.5	98.6
25	94.3	94.2	94.1	94.0	93.9	93.8	93.8	93.8	93.8	93.9	93.9	94.0	94.1	94.2	94.2	94.4	94.4	94.5	94.7
30	89.4	89.3	89.2	89.1	88.9	88.9	88.8	88.9	88.9	89.0	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.9
35	83.8	83.7	83.5	83.4	83.3	83.2	83.1	83.2	83.2	83.3	83.3	83.5	83.5	83.7	83.8	83.9	84.0	84.2	84.3
40	77.5	77.4	77.2	77.1	76.9	76.9	76.8	76.9	76.8	77.0	77.0	77.2	77.2	77.4	77.4	77.6	77.7	77.9	78.0
45	70.6	70.4	70.2	70.1	69.9	69.9	69.7	69.9	69.8	70.0	70.0	70.2	70.2	70.4	70.5	70.7	70.7	70.9	71.1
50	63.0	62.9	62.6	62.5	62.3	62.3	62.2	62.3	62.2	62.4	62.4	62.6	62.6	62.9	62.9	63.1	63.2	63.4	63.6
55	55.0	54.8	54.5	54.4	54.2	54.2	54.1	54.2	54.2	54.4	54.3	54.6	54.6	54.9	54.9	55.1	55.2	55.4	55.5
60	46.5	46.3	46.0	46.0	45.7	45.7	45.6	45.7	45.7	45.9	45.9	46.2	46.2	46.4	46.5	46.7	46.7	46.9	47.0
65	37.8	37.6	37.3	37.2	37.1	37.0	37.0	37.1	37.1	37.3	37.3	37.5	37.6	37.8	37.8	38.0	38.1	38.2	38.4
70	29.1	28.9	28.6	28.5	28.3	28.3	28.3	28.4	28.4	28.6	28.6	28.9	28.9	29.1	29.1	29.3	29.3	29.5	29.6
75	20.6	20.3	20.0	20.0	19.8	19.8	19.8	19.9	19.9	20.1	20.2	20.4	20.4	20.6	20.7	20.8	20.8	21.0	21.1
80	12.5	12.3	12.0	12.0	11.8	11.9	11.8	12.0	11.9	12.2	12.2	12.4	12.4	12.6	12.6	12.8	12.8	13.0	13.1
85	5.37	5.23	5.00	4.94	4.80	4.81	4.75	4.83	4.81	4.94	4.95	5.11	5.14	5.32	5.36	5.55	5.59	5.77	5.87
90	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.18
95	0.16	0.19	0.16	0.19	0.17	0.19	0.17	0.20	0.18	0.20	0.18	0.20	0.17	0.19	0.17	0.19	0.17	0.19	0.17
100	0.22	0.23	0.22	0.23	0.22	0.23	0.23	0.24	0.23	0.24	0.23	0.24	0.23	0.23	0.22	0.23	0.22	0.23	0.19
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	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
150	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
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: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
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: 99XLED609	TYPE: 99XLED609	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	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	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106		
5	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105		
10	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104		
15	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102		
20	98.6	98.8	98.8	98.9	98.9	99.0	99.0	99.1	99.1	99.1	99.0	99.0	98.9	98.8	98.7	98.6	98.4		
25	94.7	94.9	94.9	95.0	95.1	95.2	95.2	95.2	95.2	95.2	95.1	95.1	95.0	94.9	94.7	94.6	94.4		
30	89.9	90.1	90.1	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.4	90.3	90.2	90.0	89.9	89.6		
35	84.3	84.5	84.6	84.8	84.8	85.0	85.0	85.1	85.1	85.1	85.0	85.0	84.7	84.7	84.4	84.3	84.0		
40	78.1	78.3	78.4	78.6	78.6	78.8	78.8	78.9	78.9	78.9	78.8	78.8	78.5	78.4	78.2	78.1	77.7		
45	71.1	71.4	71.4	71.7	71.7	71.9	71.9	72.1	72.0	72.1	72.0	71.9	71.7	71.6	71.3	71.1	70.8		
50	63.6	63.9	63.9	64.2	64.2	64.4	64.5	64.6	64.6	64.7	64.5	64.5	64.2	64.1	63.8	63.6	63.3		
55	55.6	55.8	55.9	56.2	56.2	56.5	56.5	56.7	56.6	56.7	56.6	56.5	56.2	56.1	55.8	55.6	55.2		
60	47.1	47.4	47.5	47.7	47.8	48.1	48.1	48.3	48.3	48.4	48.2	48.2	47.9	47.8	47.4	47.2	46.8		
65	38.4	38.7	38.7	39.0	39.2	39.4	39.5	39.7	39.7	39.8	39.6	39.6	39.3	39.1	38.8	38.5	38.1		
70	29.7	29.9	30.0	30.3	30.4	30.7	30.8	31.0	31.0	31.1	30.9	30.9	30.6	30.4	30.0	29.8	29.4		
75	21.1	21.3	21.4	21.7	21.8	22.1	22.2	22.4	22.4	22.5	22.4	22.3	22.1	21.9	21.5	21.3	20.9		
80	13.1	13.3	13.3	13.6	13.7	14.0	14.1	14.3	14.2	14.3	14.2	14.2	13.9	13.8	13.4	13.2	12.8		
85	5.90	6.11	6.15	6.36	6.42	6.65	6.68	6.84	6.77	6.83	6.68	6.68	6.47	6.42	6.02	5.88	5.58		
90	0.18	0.24	0.22	0.23	0.25	0.34	0.37	0.41	0.36	0.36	0.30	0.26	0.18	0.16	0.15	0.13	0.14		
95	0.14	0.16	0.14	0.16	0.14	0.16	0.14	0.17	0.15	0.17	0.15	0.17	0.15	0.17	0.14	0.17	0.14		
100	0.19	0.19	0.19	0.19	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.19	0.20	0.19		
105	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		
110	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		
115	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		
120	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		
125	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		
130	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		
135	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		
140	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		
145	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		
150	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		
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: HIGH
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks: