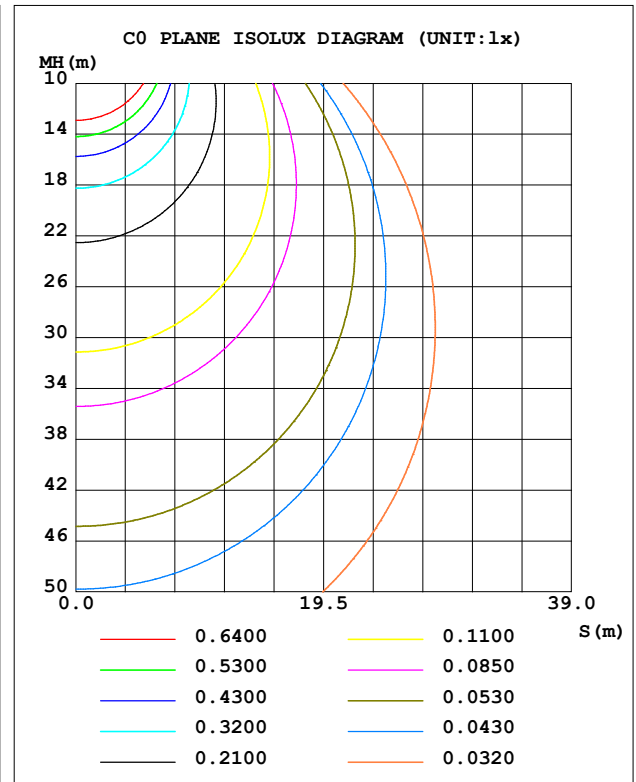
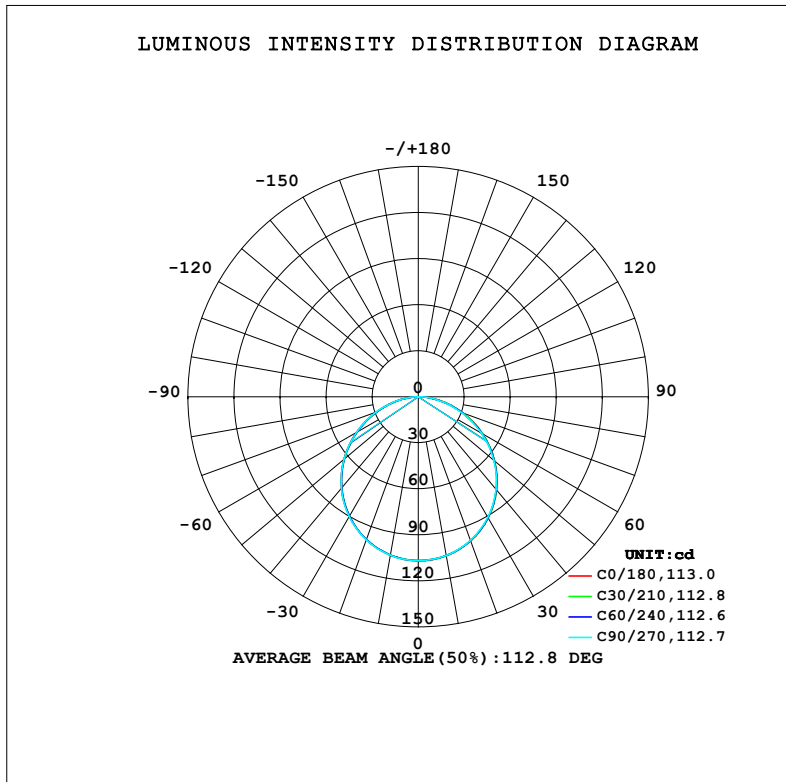


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99XLED609CW	TYPE: 99XLED609CW	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	99XLED609CW	I _{max} (cd)	106.8	S/MH (C0/180)	1.25
NOMINAL POWER (W)	6	LOR (%)	93.5	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	308.45	η UP, DN (C0-180)	0.0, 47.0
NOMINAL FLUX (lm)	330	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.4
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	93.4	CIBSE SHR MAX	1.35



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

γ Range: 0 - 100DEG
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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	105.2	105.2	105.1	104.9	104.8	104.7	104.9	105.1	0- 10	10.11	10.11	3.28,3.06
20	99.91	99.85	99.65	99.34	99.09	98.99	99.23	99.65	10- 20	28.97	39.08	12.7,11.8
30	91.21	91.10	90.80	90.39	90.00	89.83	90.17	90.83	20- 30	43.97	83.05	26.9,25.2
40	79.40	79.29	78.88	78.36	77.85	77.61	78.04	78.88	30- 40	53.10	136.1	44.1,41.3
50	64.96	64.82	64.34	63.73	63.12	62.79	63.29	64.33	40- 50	55.15	191.3	62,58
60	48.47	48.27	47.74	47.13	46.46	45.97	46.51	47.77	50- 60	49.86	241.2	78.2,73.1
70	30.98	30.63	30.11	29.64	28.94	28.48	29.05	30.25	60- 70	38.15	279.3	90.5,84.6
80	14.09	13.71	13.26	12.92	12.30	11.83	12.40	13.60	70- 80	22.39	301.7	97.8,91.4
90	0.3414	0.2848	0.2230	0.1604	0.1421	0.1392	0.1900	0.2081	80- 90	6.534	308.2	99.9,93.4
100	0.2101	0.2085	0.2258	0.2202	0.2019	0.2017	0.2122	0.2080	90-100	0.2007	308.4	100,93.5
110	0	0	0	0	0	0	0	0	100-110	0.0284	308.5	100,93.5
120	0	0	0	0	0	0	0	0	110-120	0	308.5	100,93.5
130	0	0	0	0	0	0	0	0	120-130	0	308.5	100,93.5
140	0	0	0	0	0	0	0	0	130-140	0	308.5	100,93.5
150	0	0	0	0	0	0	0	0	140-150	0	308.5	100,93.5
160	0	0	0	0	0	0	0	0	150-160	0	308.5	100,93.5
170	0	0	0	0	0	0	0	0	160-170	0	308.5	100,93.5
180	0	0	0	0	0	0	0	0	170-180	0	308.5	100,93.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 163.93 lm

%lum = 53.1%
%lamp = 49.7%

Conical surface Flux(130deg): 262.01 lm

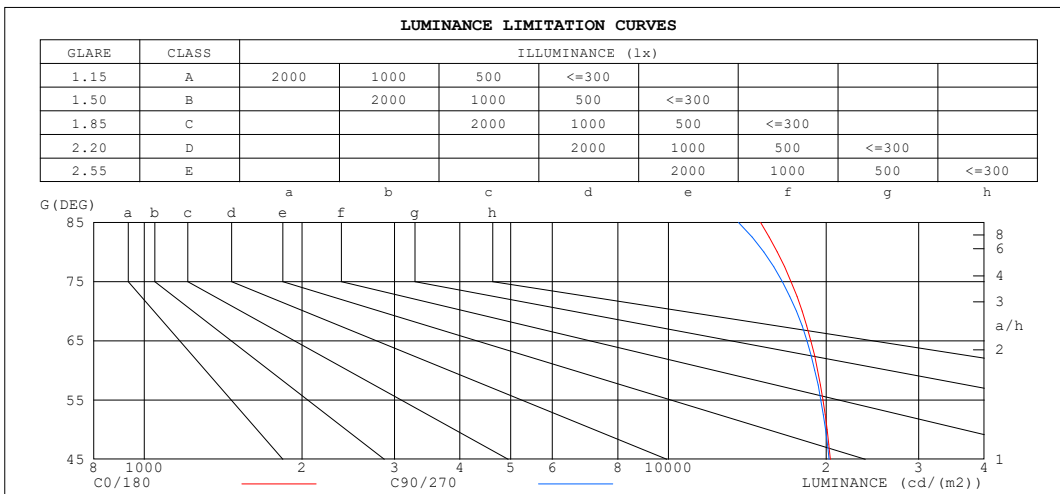
%lum = 84.9%
%lamp = 79.4%

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

γ Range: 0 - 100DEG
 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:

LUMINANCE LIMITATION CURVES

NAME: 99XLED609CW	TYPE: 99XLED609CW	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	14991	13601
80	16113	15205
75	17114	16485
70	17985	17528
65	18687	18360
60	19251	19014
55	19712	19530
50	20069	19932
45	20353	20252

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

γ Range: 0 - 100DEG
 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:

```

γ Range: 0 - 100DEG
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: 99XLED609CW	TYPE: 99XLED609CW	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	.293	.167	.053	.287	.163	.052	.274	.157	.050	.263	.152	.049	.252	.146	.047	
2.0	.275	.151	.046	.269	.148	.046	.258	.144	.045	.248	.139	.044	.239	.135	.043	
3.0	.254	.135	.040	.249	.133	.040	.239	.130	.039	.230	.126	.039	.222	.123	.038	
4.0	.234	.122	.036	.230	.120	.036	.221	.117	.035	.213	.114	.035	.206	.112	.034	
5.0	.216	.110	.032	.212	.109	.032	.205	.107	.031	.197	.104	.031	.191	.102	.031	
6.0	.200	.100	.029	.197	.099	.029	.190	.097	.028	.184	.095	.028	.178	.094	.028	
7.0	.186	.092	.026	.183	.091	.026	.177	.090	.026	.171	.088	.026	.166	.086	.025	
8.0	.174	.085	.024	.171	.084	.024	.166	.083	.024	.161	.081	.023	.156	.080	.023	
9.0	.163	.079	.022	.161	.078	.022	.156	.077	.022	.151	.076	.022	.147	.074	.022	
10.0	.153	.074	.020	.151	.073	.020	.147	.072	.020	.142	.071	.020	.138	.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	.179	.179	.179	.153	.153	.153	.104	.104	.104	.060	.060	.060	.019	.019	.019	
1.0	.169	.146	.126	.145	.126	.108	.099	.086	.075	.057	.050	.044	.018	.016	.014	
2.0	.162	.124	.092	.139	.107	.079	.095	.074	.055	.055	.043	.032	.018	.014	.011	
3.0	.155	.107	.070	.133	.093	.060	.091	.064	.042	.053	.038	.025	.017	.012	.008	
4.0	.147	.095	.055	.127	.082	.048	.087	.057	.034	.050	.033	.020	.016	.011	.007	
5.0	.140	.085	.044	.121	.074	.039	.083	.052	.027	.048	.030	.016	.016	.010	.005	
6.0	.134	.077	.037	.115	.067	.032	.079	.047	.023	.046	.028	.014	.015	.009	.004	
7.0	.127	.071	.031	.110	.062	.027	.076	.043	.019	.044	.025	.012	.014	.008	.004	
8.0	.121	.066	.027	.104	.057	.024	.072	.040	.017	.042	.024	.010	.014	.008	.003	
9.0	.116	.061	.024	.100	.053	.021	.069	.037	.015	.040	.022	.009	.013	.007	.003	
10.0	.110	.057	.021	.095	.049	.019	.066	.035	.013	.038	.021	.008	.012	.007	.003	

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

γ Range: 0 - 100DEG
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: 99XLED609CW						TYPE: 99XLED609CW			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	27.1	28.7	27.4	28.9	29.1	27.1	28.6	27.4	28.8	29.0
	3H	28.7	30.1	29.0	30.4	30.6	28.6	30.1	28.9	30.3	30.5
	4H	29.4	30.7	29.7	31.0	31.2	29.3	30.6	29.6	30.9	31.1
	6H	29.9	31.1	30.2	31.4	31.7	29.7	31.0	30.1	31.3	31.6
	8H	30.1	31.3	30.4	31.6	31.9	29.9	31.1	30.2	31.4	31.7
	12H	30.2	31.3	30.5	31.6	32.0	30.0	31.2	30.3	31.5	31.8
4H	2H	27.8	29.1	28.1	29.4	29.6	27.7	29.1	28.0	29.3	29.6
	3H	29.5	30.7	29.9	31.0	31.3	29.5	30.6	29.8	30.9	31.2
	4H	30.3	31.4	30.7	31.7	32.1	30.2	31.3	30.6	31.6	32.0
	6H	31.0	31.9	31.4	32.3	32.6	30.8	31.8	31.2	32.1	32.5
	8H	31.2	32.1	31.6	32.5	32.8	31.0	31.9	31.4	32.3	32.7
	12H	31.4	32.2	31.8	32.6	33.0	31.2	32.0	31.6	32.4	32.8
8H	4H	30.6	31.5	31.0	31.9	32.3	30.5	31.4	30.9	31.8	32.2
	6H	31.4	32.1	31.8	32.5	33.0	31.3	32.0	31.7	32.4	32.8
	8H	31.7	32.4	32.2	32.8	33.3	31.6	32.2	32.0	32.6	33.1
	12H	32.0	32.6	32.5	33.0	33.5	31.8	32.4	32.3	32.8	33.3
12H	4H	30.6	31.4	31.0	31.8	32.2	30.5	31.4	31.0	31.7	32.1
	6H	31.5	32.1	31.9	32.6	33.0	31.3	32.0	31.8	32.4	32.9
	8H	31.8	32.4	32.3	32.9	33.3	31.7	32.2	32.2	32.7	33.2
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					+ 0.2 / - 0.3				
2.0H		+ 0.1 / - 0.3					+ 0.1 / - 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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
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: 99XLED609CW	TYPE: 99XLED609CW	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

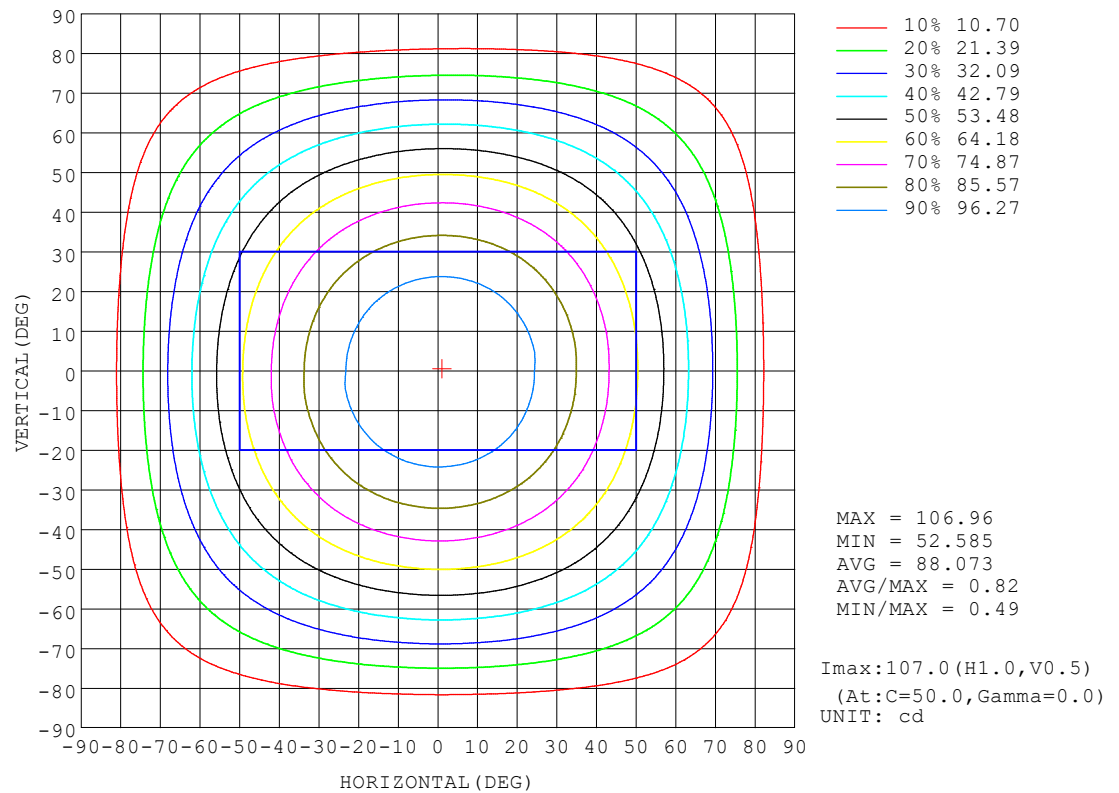
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	43	36	53	42	36	52	42	36	30
0.80	63	52	45	62	52	45	60	51	44	38
1.00	71	60	53	70	60	53	67	61	53	46
1.25	77	67	61	76	67	60	73	65	60	53
1.50	82	73	66	80	72	66	78	70	65	58
2.00	88	80	74	87	79	74	83	77	72	65
2.50	92	85	79	90	84	78	87	81	77	69
3.00	95	89	84	93	87	83	89	85	81	73
4.00	99	94	89	97	92	88	93	89	85	77
5.00	101	97	93	99	95	91	95	92	89	80
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: 05 August 2022

γ Range: 0 - 100DEG
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:

ISOCANDELA DIAGRAM

NAME: 99XLED609CW	TYPE: 99XLED609CW	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

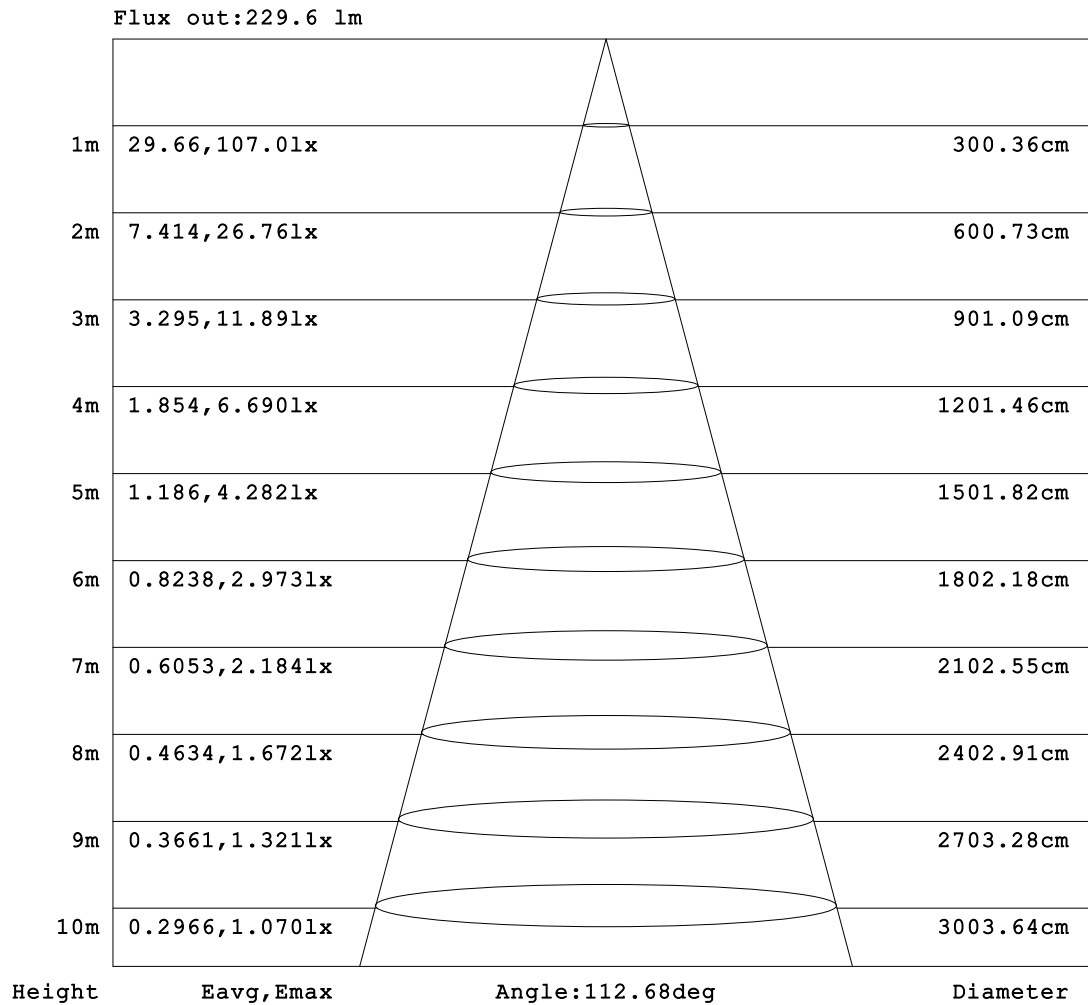


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:05 August 2022

γ Range: 0 - 100DEG
 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: 99XLED609CW	TYPE: 99XLED609CW	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:



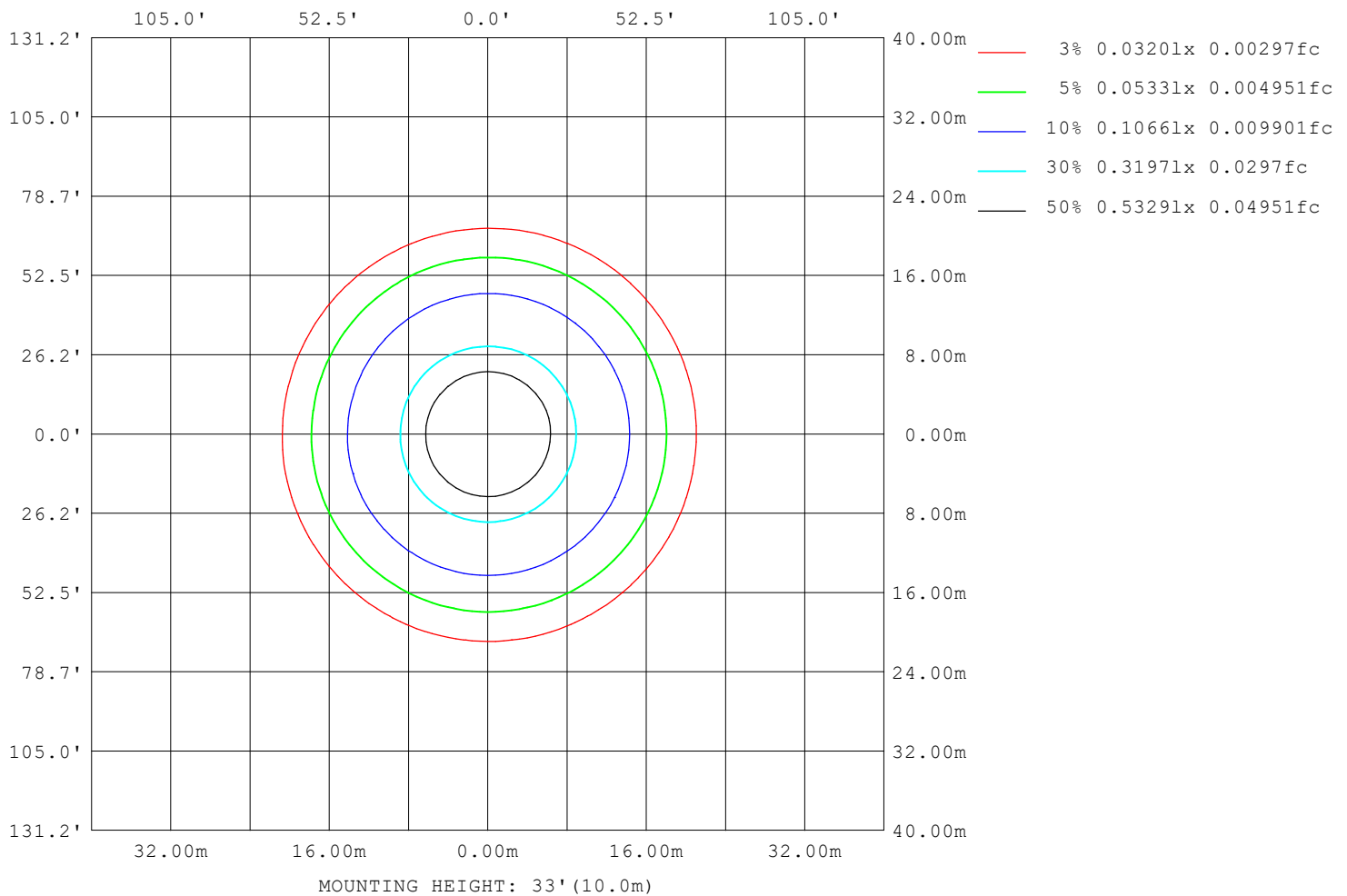
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 100DEG
 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: 99XLED609CW	TYPE: 99XLED609CW	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: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 August 2022

γ Range: 0 - 100DEG
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: 99XLED609CW	TYPE: 99XLED609CW	WEIGHT: 1
SPEC.:	DIM.: F 0.12 x 0.021	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cylinder	Shielding Angle:

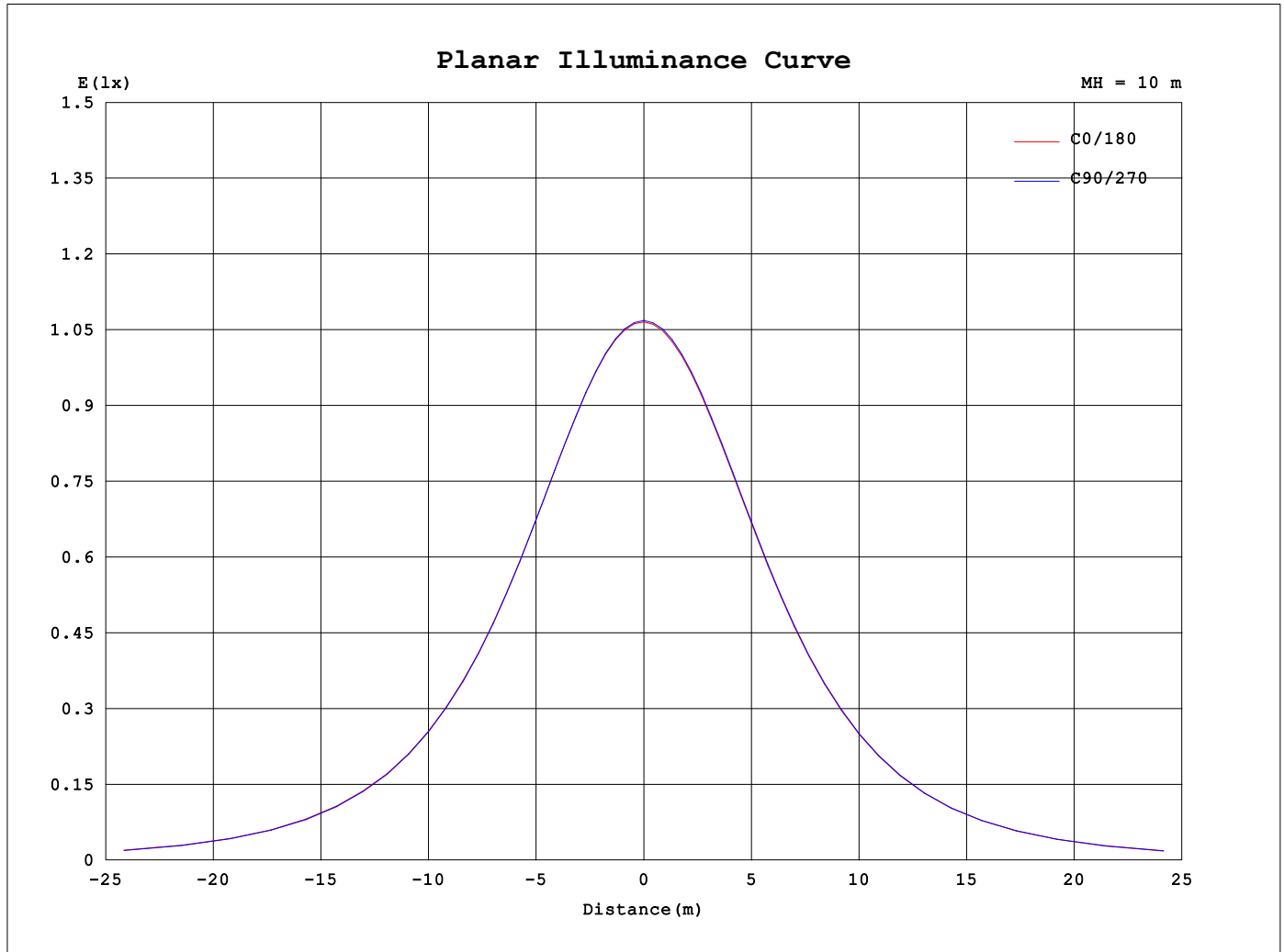
AvgL	cd/m2
L_0~180 (65) av	18245
L_0~180 (75) av	16410
L_0~180 (85) av	13281
L_90~270 (65) av	18064
L_90~270 (75) av	16109
L_90~270 (85) av	12738
L_45 (65) av	18163
L_45 (75) av	16247
L_45 (85) av	13046

Standard: GB/T 29293-2012

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

γ Range: 0 - 100DEG
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: 05 August 2022

γ Range: 0 - 100DEG
 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: 99XLED609CW	TYPE: 99XLED609CW	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	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
5	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
10	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
15	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	102	102	102
20	99.9	99.9	99.9	99.9	99.9	99.8	99.8	99.7	99.7	99.6	99.6	99.5	99.4	99.4	99.3	99.3	99.2	99.1	99.1
25	96.0	96.0	95.9	95.9	95.9	95.9	95.8	95.8	95.6	95.6	95.5	95.5	95.3	95.3	95.2	95.2	95.1	95.0	94.9
30	91.2	91.2	91.2	91.2	91.1	91.1	91.0	91.0	90.8	90.8	90.7	90.6	90.5	90.4	90.3	90.2	90.1	90.1	90.0
35	85.7	85.7	85.6	85.6	85.6	85.5	85.4	85.4	85.3	85.2	85.1	85.0	84.9	84.8	84.7	84.6	84.4	84.4	84.3
40	79.4	79.4	79.4	79.4	79.3	79.3	79.1	79.1	78.9	78.9	78.7	78.7	78.5	78.4	78.3	78.2	78.1	77.9	77.9
45	72.5	72.5	72.5	72.5	72.4	72.3	72.2	72.1	72.0	71.9	71.8	71.7	71.5	71.4	71.3	71.2	71.0	70.9	70.8
50	65.0	65.0	64.9	64.9	64.8	64.8	64.7	64.6	64.4	64.3	64.2	64.1	63.9	63.8	63.6	63.6	63.4	63.3	63.1
55	56.9	56.9	56.9	56.9	56.8	56.7	56.6	56.5	56.3	56.3	56.1	56.0	55.8	55.7	55.5	55.5	55.3	55.1	55.0
60	48.5	48.5	48.4	48.4	48.3	48.2	48.1	48.0	47.8	47.7	47.6	47.5	47.3	47.2	47.1	47.0	46.8	46.6	46.5
65	39.8	39.8	39.7	39.7	39.5	39.5	39.3	39.2	39.0	39.0	38.8	38.7	38.6	38.5	38.3	38.2	38.0	37.9	37.7
70	31.0	31.0	30.9	30.8	30.7	30.6	30.4	30.3	30.2	30.1	30.0	29.9	29.8	29.7	29.6	29.5	29.3	29.1	28.9
75	22.3	22.3	22.2	22.1	22.0	21.9	21.7	21.6	21.5	21.4	21.3	21.3	21.2	21.1	21.0	20.9	20.7	20.5	20.4
80	14.1	14.1	14.0	13.9	13.8	13.7	13.5	13.4	13.3	13.3	13.2	13.1	13.0	13.0	12.8	12.8	12.6	12.5	12.3
85	6.58	6.60	6.56	6.49	6.39	6.29	6.16	6.10	5.99	5.95	5.86	5.81	5.70	5.62	5.50	5.38	5.25	5.15	5.05
90	0.34	0.36	0.37	0.34	0.29	0.28	0.30	0.29	0.26	0.22	0.20	0.16	0.17	0.16	0.16	0.16	0.16	0.16	0.14
95	0.16	0.19	0.16	0.19	0.16	0.19	0.16	0.19	0.17	0.19	0.17	0.19	0.17	0.20	0.17	0.19	0.17	0.19	0.17
100	0.21	0.22	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.22	0.22	0.22	0.23	0.22	0.23	0.20
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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
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: 99XLED609CW	TYPE: 99XLED609CW	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	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107		
5	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106		
10	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105		
15	102	102	102	102	102	102	102	102	102	103	103	103	103	103	103	103	103		
20	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.8	99.8		
25	94.9	94.8	94.8	94.8	94.8	94.9	94.9	95.0	95.1	95.2	95.3	95.5	95.6	95.7	95.8	95.9	95.9		
30	89.9	89.9	89.8	89.8	89.8	89.9	90.0	90.1	90.2	90.4	90.5	90.6	90.8	90.9	91.0	91.1	91.2		
35	84.1	84.1	84.0	84.1	84.1	84.1	84.2	84.3	84.5	84.7	84.8	85.0	85.1	85.3	85.4	85.5	85.6		
40	77.7	77.7	77.6	77.6	77.6	77.7	77.8	77.9	78.0	78.3	78.4	78.6	78.8	79.0	79.1	79.3	79.3		
45	70.6	70.5	70.5	70.5	70.5	70.6	70.7	70.8	70.9	71.2	71.4	71.6	71.8	72.0	72.2	72.3	72.4		
50	63.0	62.9	62.8	62.8	62.8	62.9	63.0	63.1	63.3	63.5	63.7	64.0	64.2	64.5	64.6	64.8	64.9		
55	54.8	54.7	54.6	54.6	54.6	54.7	54.8	54.9	55.1	55.4	55.6	55.9	56.1	56.4	56.6	56.8	56.8		
60	46.3	46.1	46.0	46.0	46.0	46.0	46.1	46.3	46.5	46.8	47.1	47.4	47.6	47.9	48.1	48.3	48.4		
65	37.5	37.4	37.3	37.3	37.3	37.4	37.5	37.6	37.7	38.0	38.3	38.6	38.9	39.2	39.4	39.6	39.7		
70	28.8	28.7	28.5	28.5	28.5	28.5	28.6	28.8	29.1	29.3	29.5	29.8	30.1	30.4	30.6	30.8	30.9		
75	20.2	20.0	19.9	19.9	19.9	19.9	20.0	20.2	20.5	20.8	21.0	21.3	21.5	21.8	22.0	22.2	22.3		
80	12.1	12.0	11.9	11.8	11.8	11.9	12.0	12.2	12.4	12.7	13.0	13.3	13.5	13.7	13.8	13.9	14.0		
85	4.91	4.88	4.77	4.79	4.74	4.86	4.91	5.10	5.20	5.45	5.62	5.92	6.11	6.25	6.29	6.42	6.50		
90	0.14	0.14	0.13	0.14	0.14	0.15	0.17	0.16	0.19	0.19	0.22	0.23	0.22	0.20	0.18	0.23	0.29		
95	0.15	0.17	0.15	0.18	0.15	0.17	0.16	0.18	0.17	0.19	0.16	0.18	0.15	0.17	0.14	0.17	0.14		
100	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.22	0.21	0.22	0.21	0.21	0.21	0.21	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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 August 2022

γ Range: 0 - 100DEG
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: