

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	795.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	104.2V x 123.2H
	At 50% of Imax	51.2V x 71.8H
	At 90% of Imax	19.7V x 31.6H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	905.1 lumens per klm.
	To 50% of Imax	520.4 lumens per klm.
	To 90% of Imax	116.3 lumens per klm.

Upward LOR	1.2 %
Downward LOR	98.8 %

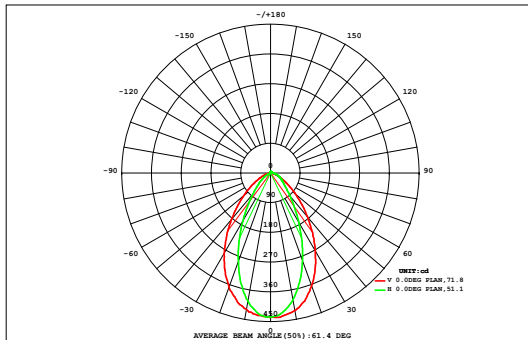
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.09V I:1.298A P:11.12W PF:0.7086 Freq:59.98Hz Lamp Flux:549.863x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:12W 4110K 60°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Floodlight Shroud



DATA OF LAMP		Eff:49.45lm/W	
MODEL	F7A1-12W-BK	Imax (cd)	437.5
NOMINAL POWER (W)	12	AVAILABILITY (%)	90.5
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	497.9
NOMINAL FLUX (lm)	549.863	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	549.9
TEST VOLTAGE (V)	12	θ @50% (H,V)	72,51DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.01	0.03	0.07	0.11	0.13	0.16	0.16	0.16	0.14	0.12	0.09	0.05	0.02	0.00	0.00	0.00	1.26	0.00
90	0.00	0.01	0.05	0.14	0.24	0.33	0.42	0.49	0.52	0.52	0.48	0.41	0.32	0.22	0.12	0.04	0.00	0.00	4.31	0.00
80	0.00	0.02	0.12	0.26	0.42	0.58	0.73	0.84	0.90	0.89	0.82	0.70	0.56	0.40	0.25	0.10	0.01	0.00	7.60	0.00
70	0.00	0.04	0.19	0.40	0.66	0.91	1.13	1.29	1.36	1.34	1.24	1.08	0.87	0.63	0.38	0.17	0.03	0.00	11.7	3.61
60	0.00	0.06	0.26	0.58	1.01	1.47	1.87	2.10	2.18	2.15	2.02	1.78	1.39	0.95	0.54	0.24	0.05	0.00	18.7	16.2
50	0.00	0.08	0.33	0.79	1.50	2.39	3.23	3.75	3.92	3.89	3.66	3.09	2.26	1.41	0.74	0.30	0.06	0.00	31.4	29.9
40	0.00	0.09	0.39	1.02	2.10	3.62	5.24	6.39	6.85	6.84	6.30	5.06	3.44	1.98	0.95	0.36	0.08	0.00	50.7	49.6
30	0.00	0.10	0.44	1.22	2.67	4.86	7.34	9.32	10.3	10.2	9.23	7.14	4.64	2.52	1.14	0.41	0.08	0.00	71.6	70.7
20	0.00	0.10	0.46	1.33	3.02	5.64	8.72	11.3	12.6	12.6	11.2	8.54	5.40	2.85	1.24	0.43	0.08	0.00	85.6	84.7
10	0.00	0.09	0.45	1.32	3.02	5.64	8.73	11.3	12.7	12.7	11.3	8.59	5.41	2.84	1.22	0.41	0.08	0.00	85.8	84.9
0	0.00	0.08	0.40	1.17	2.64	4.83	7.35	9.34	10.3	10.3	9.34	7.20	4.64	2.49	1.09	0.37	0.06	0.00	71.6	70.7
-10	0.00	0.06	0.33	0.94	2.03	3.57	5.17	6.31	6.80	6.84	6.31	5.06	3.41	1.91	0.87	0.29	0.05	0.00	49.9	48.8
-20	0.00	0.04	0.23	0.66	1.38	2.25	3.05	3.53	3.70	3.70	3.50	2.97	2.15	1.29	0.61	0.20	0.02	0.00	29.3	27.8
-30	0.00	0.02	0.14	0.41	0.80	1.22	1.55	1.74	1.81	1.78	1.69	1.48	1.15	0.74	0.37	0.11	0.01	0.00	15.0	10.9
-40	0.00	0.00	0.05	0.19	0.39	0.58	0.71	0.81	0.85	0.83	0.77	0.67	0.53	0.34	0.15	0.03	0.00	0.00	6.92	0.00
-50	0.00	0.00	0.01	0.04	0.09	0.15	0.19	0.21	0.22	0.21	0.20	0.17	0.12	0.07	0.02	0.00	0.00	0.00	1.70	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.02	0.78	3.85	10.5	22.1	38.2	55.6	68.9	75.1	75.0	68.3	54.0	36.4	20.7	9.71	3.48	0.63	0.01	543	---
Φ a	0.00	0.00	0.39	7.50	19.3	35.3	52.5	65.6	71.7	71.7	65.0	50.9	33.5	17.9	6.59	0.15	0.00	0.00	---	498

one-half-peak spread: U:23.7,D:25.8 , L:31.6,R:31.6

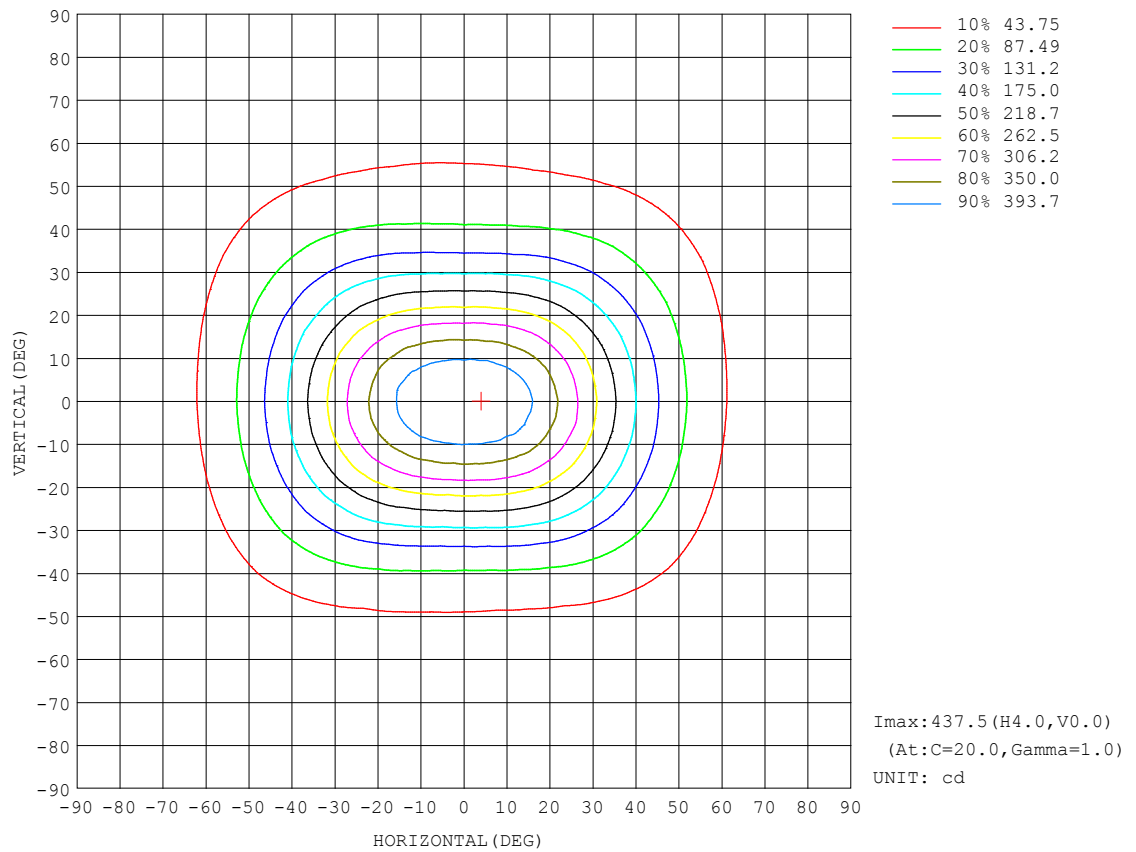
NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:12.09V I:1.298A P:11.12W PF:0.7086 Freq:59.98Hz Lamp Flux:549.863x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
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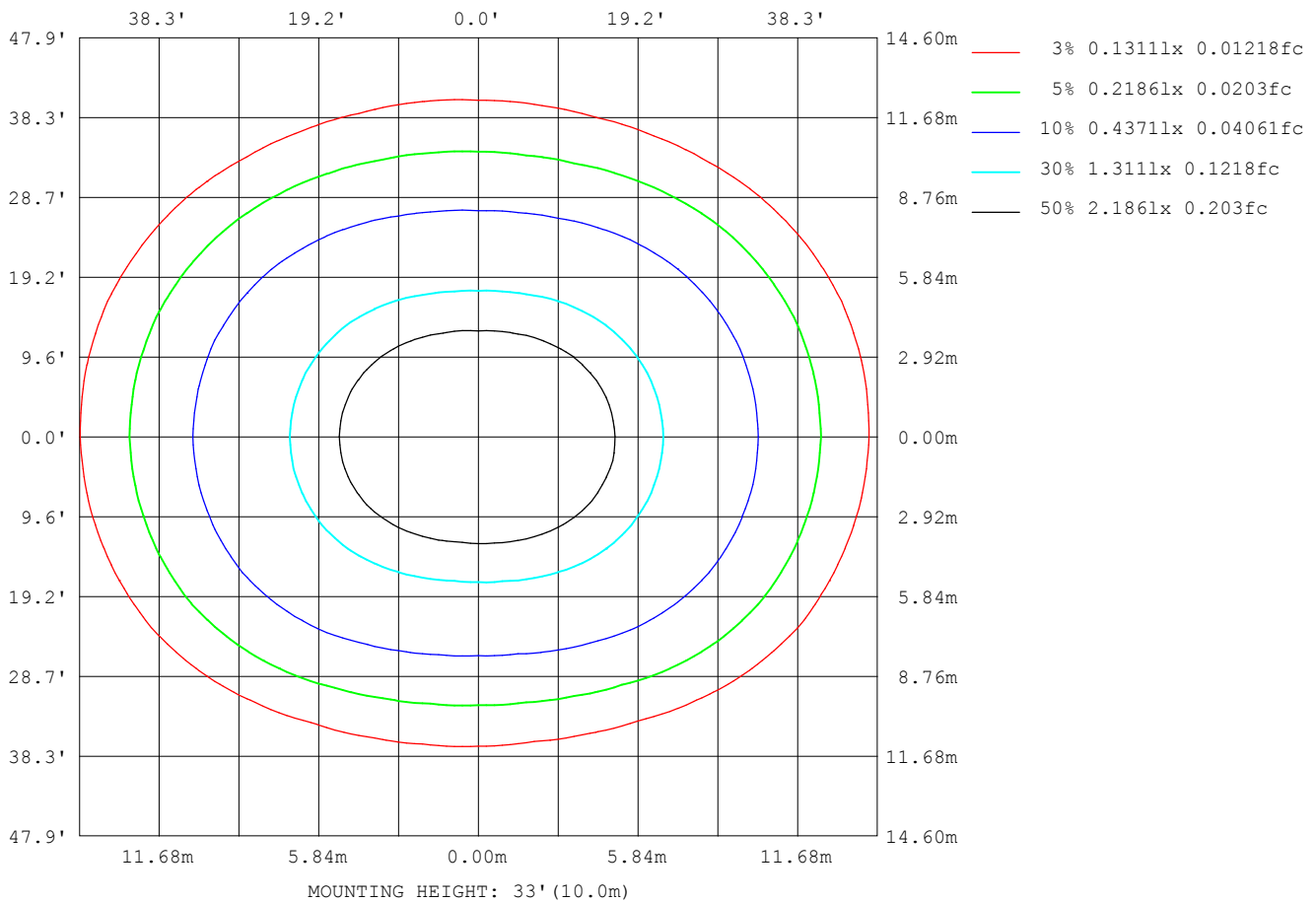


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Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

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Remarks:

ISOLUX DIAGRAM

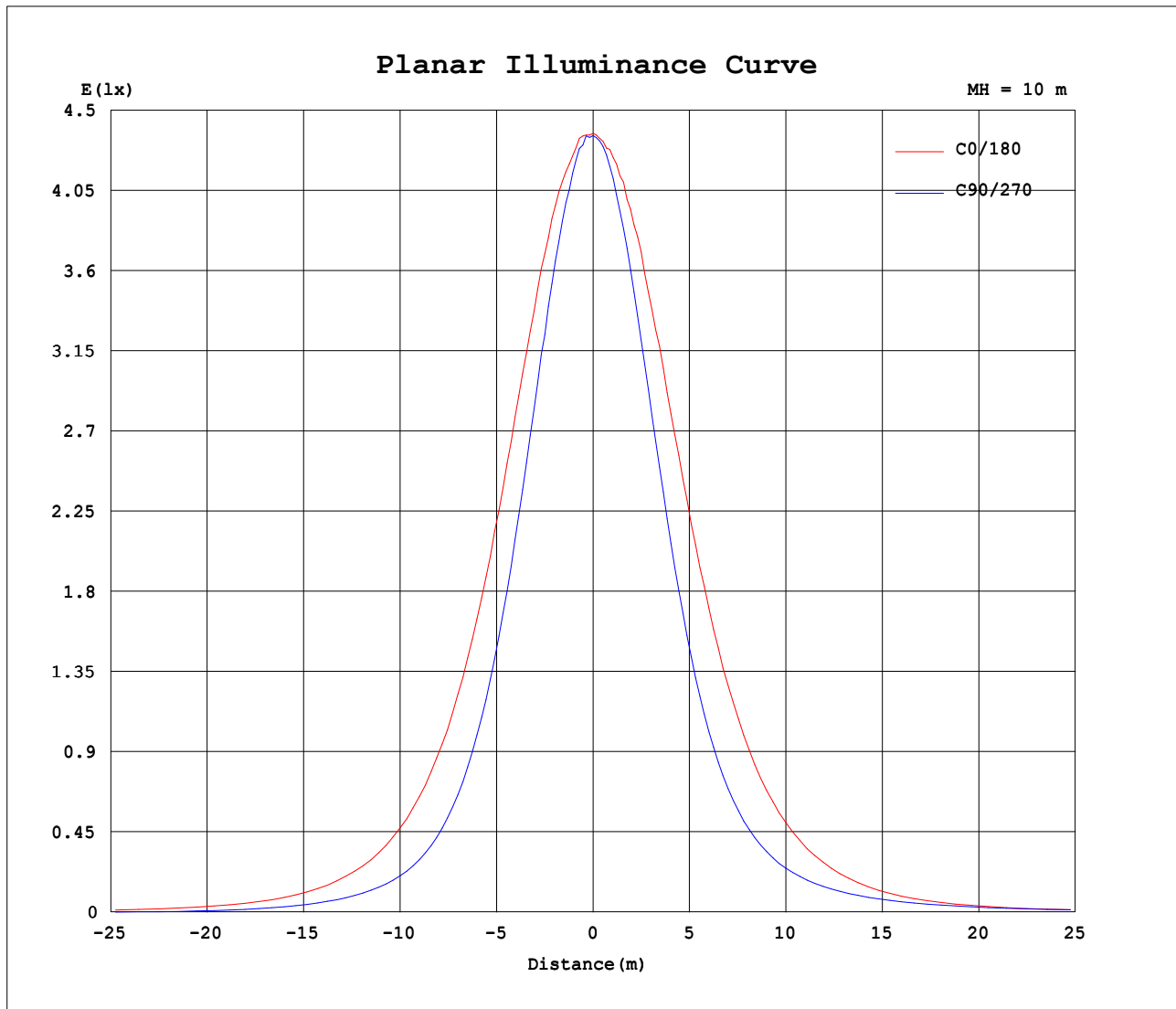
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Operators:ADMIN
Test Date:2026-02-09

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Humidity:65.0%
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Remarks:

Planar Illuminance Curve

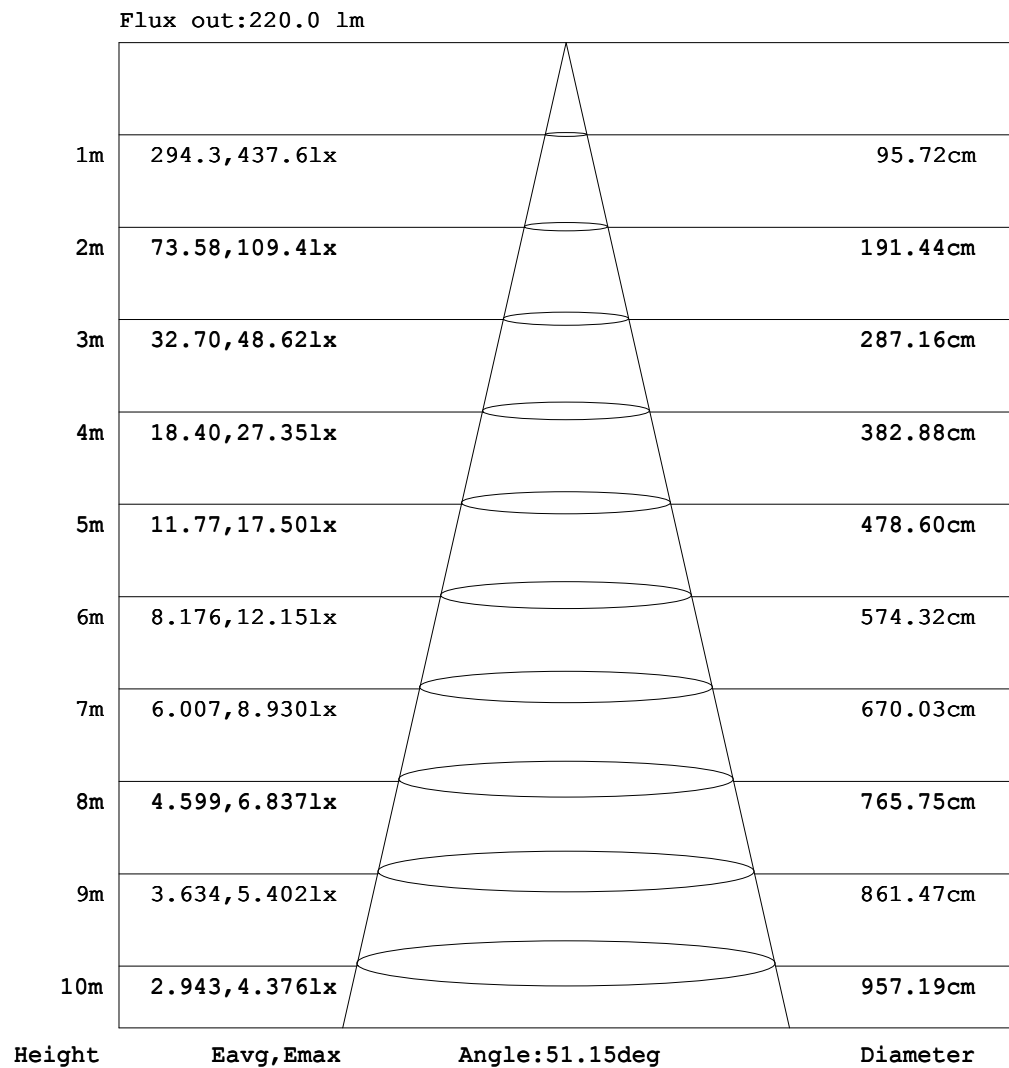


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Test Date:2026-02-09

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Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

AAI Figure

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SPEC.:12W 4110K 60°LENS	DIM.:	SERIAL No.:1
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Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Temperature:25.3DEG
Operators:ADMIN
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V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Floodlight Shroud

Table--1

UNIT: cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.00	0.00	0.00	0.00	0.12	0.29	0.53	0.79	1.11	1.47	1.87	2.27	2.68	3.06	3.44	3.83	4.16	4.43	4.58
-170	0.00	0.00	0.01	0.05	0.21	0.43	0.71	1.08	1.47	1.93	2.32	2.68	3.02	3.38	3.65	3.90	4.13	4.26	4.38
-160	0.00	0.00	0.02	0.09	0.27	0.52	0.80	1.06	1.35	1.65	1.98	2.33	2.65	2.92	3.20	3.39	3.55	3.69	3.78
-150	0.00	0.00	0.01	0.10	0.29	0.45	0.63	0.87	1.08	1.35	1.61	1.83	2.06	2.29	2.47	2.61	2.78	2.86	2.91
-140	0.00	0.00	0.00	0.09	0.19	0.32	0.45	0.62	0.82	0.97	1.12	1.32	1.45	1.58	1.68	1.80	1.86	1.93	1.95
-130	0.00	0.00	0.00	0.04	0.12	0.18	0.31	0.43	0.53	0.62	0.73	0.82	0.89	0.93	1.03	1.08	1.10	1.10	1.13
-120	0.00	0.00	0.00	0.00	0.03	0.12	0.17	0.23	0.30	0.32	0.40	0.44	0.47	0.47	0.53	0.53	0.53	0.55	0.56
-110	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.07	0.10	0.13	0.15	0.18	0.18	0.18	0.21	0.20	0.18	0.21	0.24
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.02	0.01	0.00	0.01	0.03
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.18	0.36	0.56	0.80	1.01	1.12	1.18	1.21	1.26	1.23	1.22	1.15
-60	0.00	0.00	0.00	0.11	0.49	1.23	2.87	5.29	7.86	10.2	12.2	13.5	14.6	15.2	15.8	16.2	16.3	16.4	16.1
-50	0.00	0.00	0.11	0.77	2.75	6.43	11.5	16.8	21.9	26.5	30.6	34.0	36.6	38.1	39.6	40.5	40.8	40.9	40.5
-40	0.00	0.00	0.45	2.38	7.27	13.9	21.4	29.9	39.5	49.4	58.8	67.4	74.1	79.1	81.4	83.9	84.2	83.7	83.1
-30	0.00	0.00	1.03	5.02	12.3	21.0	31.6	44.9	60.6	78.4	97.4	115	133	147	158	163	167	166	168
-20	0.00	0.00	1.76	7.71	16.5	27.3	41.3	59.5	81.9	108	138	169	201	230	253	269	280	284	286
-10	0.00	0.00	2.46	9.85	19.6	31.9	48.5	70.5	98.6	132	171	214	257	299	335	362	381	391	394
0	0.00	0.00	2.94	11.2	21.3	34.4	52.1	75.2	106	142	184	232	282	326	368	398	419	433	437
10	0.00	0.05	3.25	11.5	21.4	33.9	50.5	72.1	99.7	133	172	214	258	299	333	361	379	388	390
20	0.00	0.08	3.16	10.9	20.3	31.3	45.2	63.2	85.0	111	140	171	202	230	253	270	280	284	284
30	0.00	0.09	2.71	9.71	17.9	27.0	37.8	51.1	65.9	82.4	101	119	136	151	162	169	171	171	171
40	0.00	0.06	2.02	7.90	14.8	22.1	30.0	38.1	47.4	56.7	66.4	75.2	82.5	88.4	92.0	93.8	94.5	94.2	92.8
50	0.00	0.02	1.23	5.53	11.3	17.0	22.2	27.5	32.6	37.6	42.1	45.8	49.1	51.5	53.4	54.3	55.2	55.2	54.6
60	0.00	0.00	0.50	3.15	7.49	11.8	15.3	18.7	21.7	24.5	26.8	28.8	30.9	32.6	34.1	35.3	36.2	36.5	36.4
70	0.00	0.00	0.09	1.22	3.66	6.54	9.24	11.5	13.4	15.1	16.5	18.0	19.4	20.6	21.7	22.5	23.2	23.4	23.4
80	0.00	0.00	0.00	0.14	0.69	1.91	3.45	4.82	6.14	7.10	7.91	8.73	9.51	10.1	10.5	10.9	11.3	11.3	11.2
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.07	0.09	0.06	0.07	0.10	0.07	0.04
130	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.13	0.23	0.29	0.33	0.39	0.44	0.47	0.46	0.52	0.53	0.50
140	0.00	0.00	0.00	0.00	0.00	0.04	0.14	0.24	0.34	0.48	0.62	0.75	0.86	0.95	1.07	1.12	1.21	1.26	1.21
150	0.00	0.00	0.00	0.00	0.02	0.13	0.27	0.43	0.62	0.79	1.01	1.23	1.44	1.62	1.79	1.96	2.06	2.17	2.18
160	0.00	0.00	0.00	0.00	0.04	0.18	0.35	0.59	0.86	1.13	1.43	1.73	2.00	2.30	2.55	2.77	2.98	3.10	3.17
170	0.00	0.00	0.00	0.00	0.09	0.25	0.47	0.71	1.00	1.34	1.69	2.10	2.47	2.83	3.16	3.48	3.71	3.94	4.01
180	0.00	0.00	0.00	0.00	0.12	0.29	0.53	0.79	1.11	1.47	1.87	2.27	2.68	3.06	3.44	3.83	4.16	4.43	4.59

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Floodlight Shroud

Table--2

UNIT: cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	4.53	4.38	4.11	3.85	3.53	3.18	2.82	2.44	2.05	1.65	1.26	0.92	0.62	0.42	0.18	0.02	0.00	0.00	
-170	4.33	4.22	4.02	3.75	3.41	3.10	2.75	2.38	2.03	1.62	1.25	0.92	0.63	0.41	0.19	0.03	0.00	0.00	
-160	3.75	3.65	3.50	3.26	3.01	2.76	2.41	2.07	1.75	1.42	1.12	0.84	0.59	0.37	0.19	0.03	0.00	0.00	
-150	2.86	2.85	2.72	2.56	2.38	2.15	1.91	1.69	1.42	1.17	0.87	0.67	0.49	0.30	0.17	0.03	0.00	0.00	
-140	1.94	1.89	1.83	1.70	1.65	1.52	1.34	1.22	1.04	0.86	0.66	0.48	0.34	0.23	0.13	0.02	0.00	0.00	
-130	1.12	1.11	1.10	1.04	0.99	0.94	0.86	0.75	0.63	0.57	0.46	0.32	0.22	0.15	0.07	0.01	0.00	0.00	
-120	0.56	0.54	0.54	0.54	0.50	0.50	0.50	0.42	0.33	0.32	0.28	0.19	0.13	0.04	0.02	0.00	0.00	0.00	
-110	0.21	0.19	0.21	0.23	0.20	0.19	0.19	0.18	0.15	0.12	0.10	0.07	0.02	0.00	0.00	0.00	0.00	0.00	
-100	0.01	0.00	0.02	0.03	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	1.15	1.09	1.05	0.95	0.86	0.75	0.60	0.40	0.23	0.11	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-60	16.0	15.6	15.2	14.6	13.8	13.0	11.9	10.4	8.28	5.82	3.42	1.59	0.58	0.17	0.01	0.00	0.00	0.00	
-50	40.1	39.5	38.6	37.7	36.0	34.5	31.8	28.4	24.3	19.7	14.4	9.12	4.28	1.55	0.31	0.03	0.00	0.00	
-40	83.4	83.1	82.0	79.2	76.3	70.9	63.6	55.2	45.7	36.5	27.3	19.1	11.6	5.15	1.27	0.16	0.00	0.00	
-30	168	168	163	155	143	128	110	92.2	73.5	56.4	41.3	28.9	18.7	9.94	3.21	0.47	0.00	0.00	
-20	286	281	269	250	225	195	162	131	102	76.2	55.1	37.9	24.8	14.3	5.58	0.90	0.00	0.00	
-10	392	383	363	331	293	249	205	162	125	92.3	65.2	44.6	29.2	17.5	7.61	1.32	0.00	0.00	
0	434	423	401	365	320	272	223	175	134	98.1	69.8	47.6	31.5	19.2	8.89	1.60	0.00	0.00	
10	389	378	359	329	292	248	204	163	125	93.2	67.0	46.7	31.3	19.5	9.40	1.93	0.02	0.00	
20	284	279	267	249	223	194	162	132	104	79.4	58.9	42.3	29.2	18.5	9.05	1.95	0.02	0.00	
30	171	169	166	157	145	130	113	94.8	77.4	61.7	47.9	35.5	25.3	16.5	7.97	1.65	0.02	0.00	
40	93.0	92.2	90.8	88.0	84.0	78.3	70.8	62.3	53.5	44.6	36.1	28.2	20.6	13.4	6.23	1.15	0.00	0.00	
50	54.3	53.5	52.2	51.1	49.1	46.7	43.6	40.0	35.6	31.0	26.0	20.9	15.7	9.87	4.04	0.61	0.00	0.00	
60	36.0	35.2	34.1	32.9	31.4	29.8	27.9	25.8	23.4	20.7	17.7	14.3	10.5	6.06	2.03	0.17	0.00	0.00	
70	23.2	22.7	22.0	21.0	19.9	18.7	17.3	15.9	14.3	12.5	10.5	8.12	5.24	2.43	0.58	0.00	0.00	0.00	
80	11.1	10.9	10.5	10.1	9.51	8.87	8.02	7.13	6.19	5.13	3.72	2.27	0.98	0.15	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100	0.00	0.00	0.00	0.00	0.00	0.00	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	
120	0.07	0.10	0.10	0.06	0.09	0.06	0.02	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
130	0.54	0.54	0.48	0.50	0.48	0.41	0.33	0.32	0.26	0.14	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
140	1.27	1.22	1.18	1.12	1.00	0.88	0.80	0.67	0.54	0.41	0.30	0.19	0.07	0.00	0.00	0.00	0.00	0.00	
150	2.21	2.12	2.05	1.88	1.70	1.53	1.32	1.06	0.88	0.68	0.50	0.31	0.15	0.00	0.04	0.00	0.00	0.00	
160	3.16	3.08	2.90	2.68	2.41	2.10	1.79	1.50	1.21	0.91	0.63	0.44	0.26	0.15	0.08	0.00	0.00	0.00	
170	4.00	3.83	3.55	3.25	2.94	2.55	2.16	1.79	1.41	1.15	0.90	0.66	0.47	0.30	0.13	0.01	0.00	0.00	
180	4.53	4.38	4.11	3.85	3.53	3.18	2.82	2.44	2.05	1.65	1.26	0.92	0.62	0.42	0.18	0.02	0.00	0.00	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks: