

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	795.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	104.4V x 123.2H
	At 50% of Imax	51.2V x 71.7H
	At 90% of Imax	20.1V x 31.5H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	905.1 lumens per klm.
	To 50% of Imax	519.1 lumens per klm.
	To 90% of Imax	113.1 lumens per klm.

Upward LOR	1.2 %
Downward LOR	98.8 %

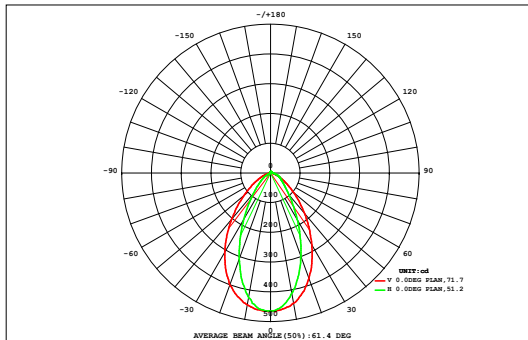
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

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:12.10V I:1.275A P:10.92W PF:0.7084 Freq:59.98Hz Lamp Flux:586.334x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:12W 5700K 60°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Floodlight Shroud



DATA OF LAMP		Eff:53.67lm/W	
MODEL	F7A1-12W-BK	Imax (cd)	466.2
NOMINAL POWER (W)	12	AVAILABILITY (%)	90.5
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	530.8
NOMINAL FLUX (lm)	586.334	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	586.3
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	0.14	0.16	0.17	0.17	0.15	0.13	0.09	0.06	0.02	0.00	0.00	0.00	1.34	0.00
90	0.00	0.01	0.06	0.15	0.25	0.35	0.45	0.52	0.56	0.55	0.51	0.43	0.34	0.23	0.13	0.04	0.00	0.00	4.58	0.00
80	0.00	0.02	0.12	0.28	0.45	0.62	0.77	0.90	0.96	0.95	0.87	0.74	0.59	0.42	0.26	0.11	0.02	0.00	8.08	0.00
70	0.00	0.04	0.20	0.43	0.71	0.98	1.22	1.38	1.45	1.42	1.31	1.14	0.91	0.66	0.40	0.18	0.03	0.00	12.5	3.78
60	0.00	0.06	0.27	0.62	1.09	1.60	2.02	2.26	2.32	2.27	2.12	1.85	1.45	0.99	0.57	0.25	0.05	0.00	19.8	17.1
50	0.00	0.08	0.35	0.86	1.63	2.60	3.50	4.03	4.17	4.09	3.81	3.19	2.33	1.45	0.77	0.32	0.07	0.00	33.3	31.7
40	0.00	0.09	0.42	1.11	2.30	3.95	5.67	6.85	7.27	7.17	6.54	5.20	3.52	2.03	0.98	0.38	0.08	0.00	53.6	52.4
30	0.00	0.10	0.47	1.33	2.94	5.33	7.96	9.98	10.9	10.7	9.58	7.33	4.73	2.57	1.17	0.43	0.09	0.00	75.6	74.6
20	0.00	0.10	0.50	1.46	3.34	6.22	9.51	12.1	13.4	13.3	11.7	8.76	5.51	2.91	1.28	0.45	0.09	0.00	90.7	89.8
10	0.00	0.10	0.49	1.45	3.34	6.26	9.58	12.3	13.6	13.5	11.9	8.89	5.58	2.93	1.27	0.43	0.08	0.00	91.7	90.8
0	0.00	0.08	0.43	1.29	2.92	5.34	8.04	10.1	11.1	11.1	9.96	7.58	4.84	2.59	1.14	0.39	0.07	0.00	77.0	76.0
-10	0.00	0.06	0.35	1.02	2.23	3.90	5.61	6.82	7.34	7.38	6.81	5.40	3.62	2.02	0.91	0.31	0.05	0.00	53.8	52.7
-20	0.00	0.04	0.25	0.72	1.50	2.44	3.29	3.79	3.98	4.00	3.80	3.21	2.31	1.38	0.65	0.22	0.03	0.00	31.6	30.0
-30	0.00	0.02	0.14	0.44	0.86	1.31	1.66	1.86	1.94	1.92	1.83	1.61	1.25	0.81	0.40	0.12	0.01	0.00	16.2	11.9
-40	0.00	0.00	0.05	0.20	0.41	0.61	0.76	0.87	0.91	0.89	0.83	0.73	0.58	0.38	0.17	0.04	0.00	0.00	7.44	0.00
-50	0.00	0.00	0.01	0.04	0.10	0.16	0.20	0.23	0.23	0.23	0.21	0.18	0.14	0.08	0.02	0.00	0.00	0.00	1.83	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	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	0.81	4.13	11.4	24.2	41.8	60.4	74.2	80.3	79.7	71.9	56.4	37.8	21.5	10.1	3.69	0.69	0.01	579	---
Φ a	0.00	0.00	0.47	8.30	21.2	38.7	57.1	70.7	76.7	76.1	68.4	53.1	34.7	18.5	6.72	0.11	0.00	0.00	---	531

one-half-peak spread: U:23.9,D:25.1 , L:31.4,R:32.8

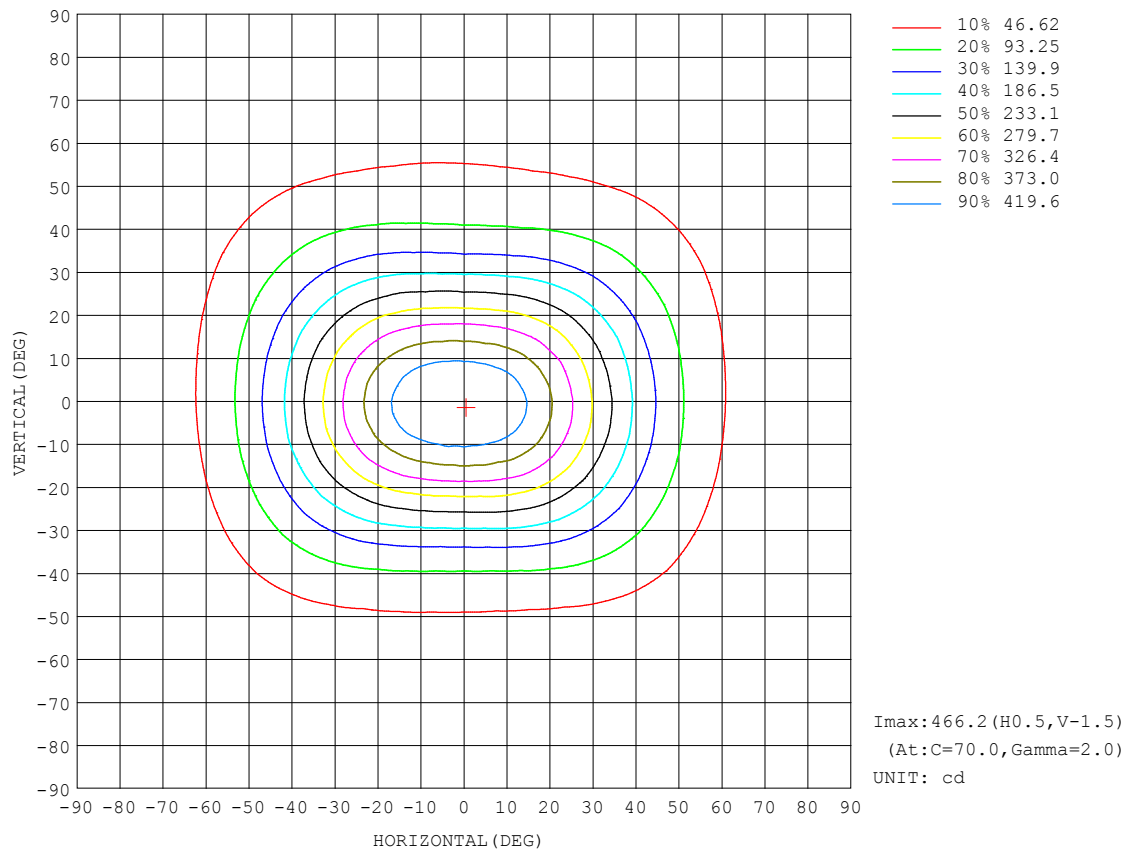
NEMA Beam Type: Type 6

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:12.10V I:1.275A P:10.92W PF:0.7084 Freq:59.98Hz Lamp Flux:586.334x1 lm		
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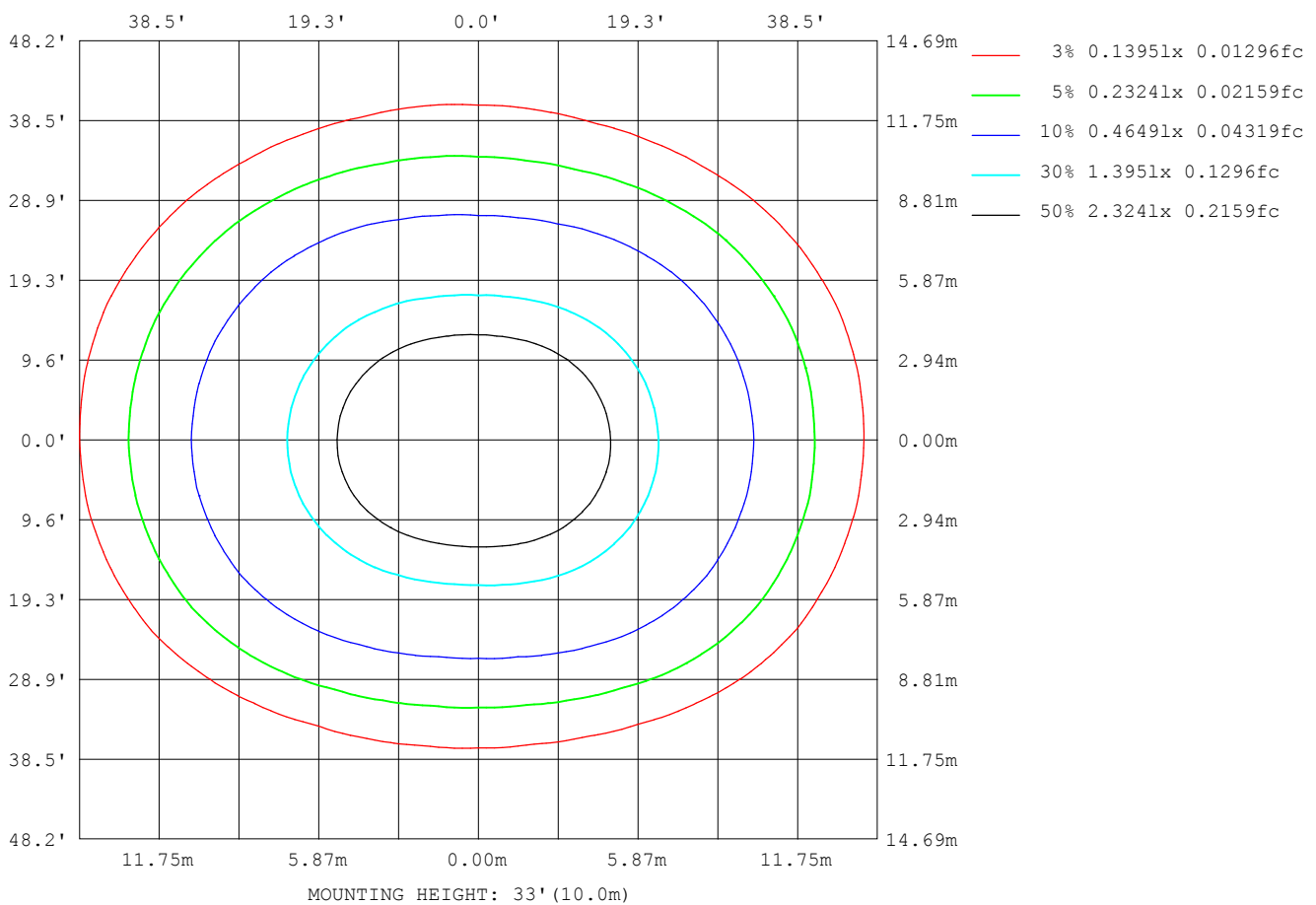


H(β) Range:-90 - 90DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

V(B) Range:-180 - 180DEG
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Humidity:65.0%
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Remarks:

ISOLUX DIAGRAM

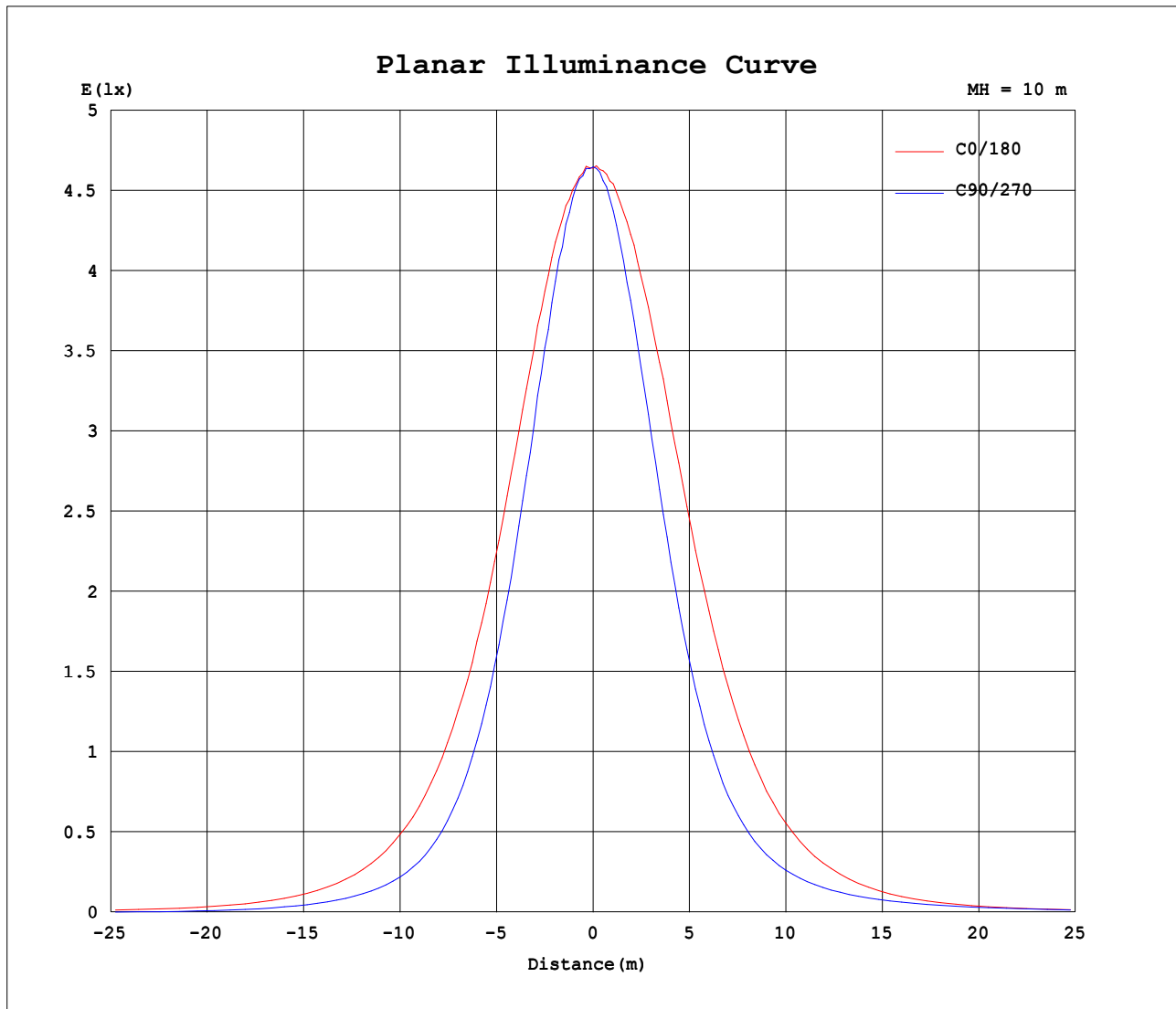
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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-09

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Remarks:

Planar Illuminance Curve

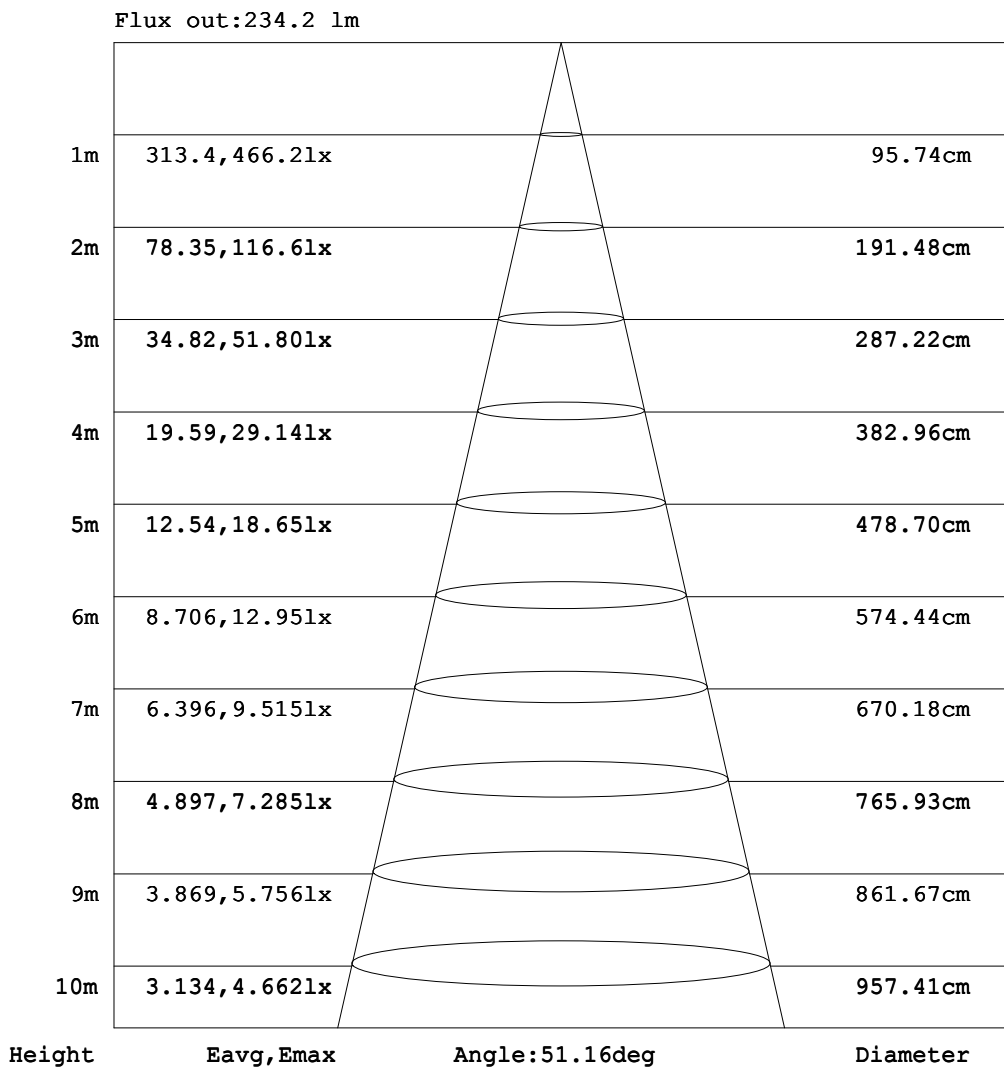


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Remarks:

AAI Figure

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NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:12W 5700K 60°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Floodlight Shroud



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

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Operators:ADMIN
Test Date:2026-02-09

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V(B) Interval: 0.5DEG
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Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.10V I:1.275A P:10.92W PF:0.7084 Freq:59.98Hz Lamp Flux:586.334x1 lm		
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SPEC.:12W 5700K 60°LENS	DIM.:	SERIAL No.:1
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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	0.13	0.33	0.54	0.81	1.16	1.53	1.94	2.37	2.78	3.21	3.64	4.04	4.41	4.70	4.91
-170	0.00	0.00	0.01	0.06	0.23	0.47	0.74	1.11	1.53	2.01	2.42	2.80	3.17	3.52	3.87	4.17	4.41	4.60	4.69
-160	0.00	0.00	0.02	0.11	0.29	0.55	0.82	1.11	1.41	1.73	2.11	2.45	2.78	3.05	3.34	3.58	3.77	3.93	4.04
-150	0.00	0.00	0.02	0.12	0.31	0.47	0.66	0.90	1.16	1.40	1.68	1.91	2.14	2.39	2.59	2.78	2.94	3.00	3.11
-140	0.00	0.00	0.01	0.12	0.22	0.34	0.48	0.65	0.86	1.03	1.19	1.36	1.52	1.65	1.76	1.89	1.99	2.03	2.09
-130	0.00	0.00	0.00	0.06	0.15	0.24	0.32	0.46	0.56	0.63	0.75	0.87	0.97	1.02	1.07	1.14	1.15	1.18	1.21
-120	0.00	0.00	0.00	0.02	0.04	0.13	0.19	0.27	0.31	0.38	0.44	0.48	0.50	0.51	0.57	0.58	0.57	0.59	0.62
-110	0.00	0.00	0.00	0.00	0.01	0.02	0.07	0.11	0.15	0.17	0.18	0.20	0.19	0.22	0.24	0.24	0.24	0.26	0.26
-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	0.03	0.02	0.00	0.02	0.05
-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	0.00	0.03	0.05	0.18	0.38	0.56	0.81	1.03	1.16	1.25	1.30	1.35	1.31	1.32	1.27
-60	0.00	0.00	0.00	0.10	0.49	1.22	2.94	5.48	8.23	10.7	12.8	14.3	15.3	16.1	16.8	17.2	17.3	17.5	17.4
-50	0.00	0.00	0.09	0.75	2.77	6.68	12.2	17.9	23.4	28.3	32.7	36.3	39.0	40.6	42.3	43.0	43.7	43.8	43.5
-40	0.00	0.00	0.41	2.37	7.56	14.8	23.0	32.2	42.7	53.3	63.2	72.2	79.5	84.9	87.3	89.7	90.1	90.0	89.7
-30	0.00	0.00	0.96	5.08	13.0	22.5	34.1	48.9	66.2	85.5	106	126	144	159	170	176	179	180	181
-20	0.00	0.00	1.66	7.90	17.6	29.4	44.9	65.1	90.0	120	152	186	220	250	275	292	302	307	309
-10	0.00	0.00	2.33	10.1	20.8	34.5	52.8	77.5	109	147	190	237	284	329	365	393	412	422	426
0	0.00	0.00	2.78	11.5	22.6	37.0	56.5	82.6	116	157	204	257	309	358	401	430	451	461	464
10	0.00	0.04	3.11	11.8	22.8	36.5	54.8	78.9	109	147	189	235	282	325	361	387	404	413	411
20	0.00	0.07	3.03	11.3	21.5	33.7	49.4	68.9	93.0	122	154	187	220	250	273	288	298	302	299
30	0.00	0.08	2.58	9.98	19.1	29.1	41.1	55.6	71.9	90.1	110	130	148	164	175	181	182	182	180
40	0.00	0.05	1.89	7.96	15.6	23.6	32.5	41.5	51.5	61.8	72.1	81.7	89.5	95.7	100.0	101	101	100	98.1
50	0.00	0.02	1.12	5.49	11.8	18.1	23.8	29.7	35.3	40.7	45.6	49.6	53.0	55.7	57.4	58.0	59.0	58.7	57.9
60	0.00	0.00	0.44	3.04	7.66	12.3	16.4	20.1	23.4	26.3	28.8	31.0	33.0	34.8	36.3	37.6	38.4	38.8	38.7
70	0.00	0.00	0.08	1.12	3.58	6.71	9.69	12.2	14.3	16.1	17.6	19.1	20.6	22.0	23.0	23.9	24.7	24.8	24.7
80	0.00	0.00	0.00	0.10	0.61	1.83	3.42	4.97	6.42	7.44	8.35	9.22	10.1	10.7	11.2	11.6	11.9	12.0	12.0
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	0.01
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	0.04	0.04	0.06	0.09	0.11	0.09	0.11	0.12	0.12	0.12
130	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.16	0.26	0.33	0.36	0.42	0.50	0.52	0.54	0.59	0.60	0.59
140	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.28	0.41	0.53	0.69	0.82	0.92	1.04	1.17	1.22	1.31	1.36	1.35
150	0.00	0.00	0.00	0.00	0.00	0.14	0.29	0.48	0.66	0.87	1.08	1.33	1.55	1.74	1.93	2.13	2.22	2.36	2.42
160	0.00	0.00	0.00	0.00	0.05	0.21	0.41	0.62	0.90	1.20	1.50	1.81	2.13	2.45	2.74	2.95	3.19	3.35	3.40
170	0.00	0.00	0.00	0.00	0.12	0.30	0.48	0.76	1.07	1.40	1.79	2.21	2.60	3.01	3.34	3.65	3.99	4.21	4.31
180	0.00	0.00	0.00	0.00	0.13	0.33	0.54	0.81	1.16	1.53	1.94	2.37	2.78	3.21	3.64	4.04	4.41	4.70	4.92

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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SPEC.:12W 5700K 60°LENS	DIM.:	SERIAL No.:1
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	4.87	4.70	4.43	4.15	3.83	3.50	3.09	2.69	2.28	1.82	1.41	1.04	0.74	0.44	0.27	0.04	0.00	0.00	
-170	4.65	4.54	4.33	4.06	3.71	3.37	3.00	2.63	2.21	1.80	1.40	1.03	0.72	0.46	0.25	0.05	0.00	0.00	
-160	4.01	3.92	3.79	3.54	3.27	2.99	2.64	2.27	1.92	1.57	1.25	0.95	0.66	0.43	0.21	0.05	0.00	0.00	
-150	3.07	3.05	2.91	2.77	2.59	2.34	2.10	1.85	1.57	1.28	0.99	0.76	0.55	0.38	0.19	0.05	0.00	0.00	
-140	2.09	2.03	1.99	1.86	1.78	1.66	1.48	1.32	1.15	0.97	0.75	0.59	0.41	0.28	0.15	0.04	0.00	0.00	
-130	1.21	1.21	1.19	1.14	1.07	1.04	0.95	0.85	0.76	0.65	0.53	0.39	0.28	0.17	0.10	0.01	0.00	0.00	
-120	0.61	0.61	0.63	0.60	0.58	0.54	0.53	0.48	0.42	0.36	0.32	0.24	0.14	0.09	0.03	0.00	0.00	0.00	
-110	0.26	0.26	0.26	0.26	0.27	0.23	0.22	0.21	0.16	0.14	0.13	0.10	0.04	0.00	0.00	0.00	0.00	0.00	
-100	0.02	0.00	0.03	0.04	0.02	0.00	0.02	0.03	0.02	0.01	0.01	0.02	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	1.27	1.21	1.20	1.11	1.03	0.90	0.74	0.52	0.33	0.18	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
-60	17.3	16.8	16.5	16.0	15.2	14.4	13.2	11.5	9.30	6.64	4.01	1.94	0.76	0.26	0.03	0.00	0.00	0.00	
-50	43.2	42.6	41.6	40.9	39.3	37.5	34.7	31.0	26.4	21.4	15.9	10.2	4.96	1.90	0.44	0.05	0.00	0.00	
-40	89.9	89.8	89.3	86.6	83.0	76.9	68.9	59.5	49.4	39.1	29.3	20.6	12.7	5.90	1.60	0.24	0.00	0.00	
-30	181	182	177	168	154	137	118	98.1	78.0	59.6	43.9	30.8	20.2	11.0	3.79	0.62	0.00	0.00	
-20	308	303	290	267	238	206	171	137	107	80.1	57.6	40.1	26.5	15.5	6.37	1.14	0.00	0.00	
-10	420	407	384	349	306	259	212	168	129	95.4	68.1	46.8	31.0	18.7	8.54	1.65	0.00	0.00	
0	460	445	417	378	329	278	228	180	137	101	72.1	50.0	33.3	20.4	9.89	1.99	0.00	0.00	
10	408	395	372	340	300	254	208	166	128	95.2	69.1	48.5	32.9	20.7	10.3	2.32	0.02	0.00	
20	297	290	277	256	229	198	166	135	107	81.6	60.7	43.8	30.8	19.6	9.90	2.30	0.03	0.00	
30	180	176	172	163	149	134	116	97.5	79.7	63.5	49.6	37.0	26.5	17.4	8.72	1.94	0.02	0.00	
40	97.8	96.7	94.7	91.8	87.3	80.9	73.4	64.7	55.3	46.2	37.5	29.4	21.7	14.3	6.89	1.38	0.00	0.00	
50	57.6	56.6	54.9	53.6	51.5	48.8	45.5	41.7	37.2	32.3	27.2	22.0	16.7	10.6	4.53	0.75	0.00	0.00	
60	38.2	37.4	36.2	34.8	33.3	31.4	29.2	27.1	24.6	21.8	18.6	15.1	11.2	6.65	2.33	0.21	0.00	0.00	
70	24.6	24.2	23.4	22.4	21.2	19.9	18.4	16.8	15.2	13.3	11.2	8.69	5.76	2.76	0.68	0.00	0.00	0.00	
80	11.8	11.6	11.2	10.7	10.1	9.42	8.53	7.58	6.61	5.53	4.06	2.55	1.15	0.22	0.02	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	0.13	0.13	0.12	0.11	0.12	0.11	0.04	0.04	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
130	0.61	0.60	0.56	0.54	0.53	0.45	0.42	0.37	0.29	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
140	1.39	1.34	1.28	1.23	1.13	1.00	0.90	0.76	0.59	0.45	0.34	0.22	0.10	0.00	0.00	0.00	0.00	0.00	
150	2.41	2.33	2.25	2.08	1.89	1.70	1.46	1.21	0.98	0.77	0.56	0.37	0.18	0.03	0.03	0.00	0.00	0.00	
160	3.44	3.35	3.16	2.94	2.65	2.34	2.00	1.70	1.36	1.03	0.73	0.48	0.31	0.19	0.08	0.01	0.00	0.00	
170	4.32	4.16	3.87	3.56	3.21	2.81	2.39	1.97	1.58	1.30	1.02	0.76	0.52	0.32	0.18	0.03	0.00	0.00	
180	4.87	4.70	4.43	4.15	3.83	3.50	3.09	2.69	2.28	1.82	1.41	1.04	0.74	0.44	0.27	0.04	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: