

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	799.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	104.0V x 123.0H
	At 50% of Imax	50.8V x 71.4H
	At 90% of Imax	19.5V x 32.0H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	903.4 lumens per klm.
	To 50% of Imax	517.9 lumens per klm.
	To 90% of Imax	111.6 lumens per klm.

Upward LOR	1.3 %
Downward LOR	98.7 %

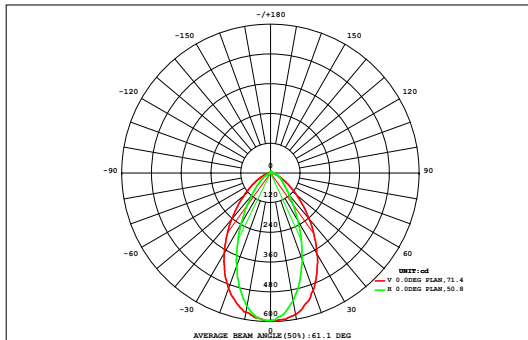
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-10

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:12.13V I:1.248A P:14.00W PF:0.9249 Freq:59.98Hz Lamp Flux:747.587x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:15W 2700K 60°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Floodlight Shroud



DATA OF LAMP		Eff:53.41lm/W	
MODEL	F5A1-15W-27K-BK	Imax (cd)	597.9
NOMINAL POWER (W)	15	AVAILABILITY (%)	90.4
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	675.6
NOMINAL FLUX (lm)	747.587	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	747.6
TEST VOLTAGE (V)	12	θ @50% (H,V)	71,51DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.01	0.03	0.07	0.11	0.15	0.17	0.19	0.18	0.17	0.15	0.11	0.07	0.03	0.01	0.00	0.00	1.45	0.00
90	0.00	0.00	0.01	0.03	0.07	0.11	0.15	0.17	0.19	0.18	0.17	0.15	0.11	0.07	0.03	0.01	0.00	0.00	1.45	0.00
80	0.00	0.01	0.06	0.17	0.29	0.41	0.53	0.62	0.67	0.67	0.62	0.53	0.42	0.30	0.17	0.06	0.01	0.00	5.53	0.00
70	0.00	0.02	0.15	0.33	0.53	0.74	0.93	1.09	1.17	1.16	1.08	0.93	0.74	0.54	0.34	0.15	0.02	0.00	9.93	0.00
60	0.00	0.05	0.23	0.51	0.84	1.16	1.45	1.66	1.77	1.75	1.63	1.43	1.16	0.85	0.52	0.24	0.05	0.00	15.3	3.47
50	0.00	0.07	0.33	0.73	1.28	1.87	2.37	2.68	2.81	2.78	2.64	2.34	1.86	1.28	0.74	0.33	0.07	0.00	24.2	20.4
40	0.00	0.10	0.42	1.01	1.90	3.04	4.11	4.79	5.02	5.02	4.77	4.08	3.03	1.91	1.02	0.43	0.10	0.00	40.7	38.6
30	0.00	0.11	0.50	1.30	2.70	4.66	6.77	8.29	8.92	8.95	8.34	6.78	4.65	2.70	1.31	0.51	0.11	0.00	66.6	65.1
	0.00	0.12	0.57	1.57	3.47	6.35	9.64	12.3	13.6	13.7	12.4	9.72	6.37	3.47	1.58	0.57	0.12	0.00	95.6	94.3
	0.00	0.13	0.60	1.73	3.96	7.45	11.6	15.2	17.1	17.1	15.4	11.8	7.48	3.96	1.73	0.60	0.12	0.00	116	115
	0.00	0.12	0.59	1.73	3.99	7.54	11.8	15.4	17.3	17.4	15.6	11.9	7.56	3.98	1.72	0.58	0.12	0.00	117	116
	0.00	0.10	0.53	1.55	3.52	6.52	10.0	12.9	14.3	14.4	13.0	10.1	6.51	3.51	1.54	0.53	0.10	0.00	99.1	97.8
	0.00	0.08	0.43	1.24	2.74	4.88	7.19	8.89	9.58	9.61	8.89	7.14	4.83	2.71	1.24	0.43	0.07	0.00	70.0	68.4
-30	0.00	0.05	0.31	0.89	1.88	3.14	4.33	5.05	5.30	5.29	5.00	4.23	3.06	1.85	0.89	0.31	0.04	0.00	41.6	39.6
-40	0.00	0.02	0.18	0.56	1.12	1.73	2.23	2.51	2.60	2.57	2.44	2.15	1.67	1.09	0.55	0.18	0.02	0.00	21.6	16.9
-50	0.00	0.01	0.06	0.26	0.55	0.83	1.04	1.19	1.25	1.23	1.14	1.00	0.80	0.53	0.25	0.06	0.00	0.00	10.2	0.00
-60	0.00	0.00	0.01	0.05	0.14	0.24	0.30	0.34	0.36	0.35	0.32	0.28	0.22	0.12	0.04	0.01	0.00	0.00	2.78	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.10	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	0.98	4.96	13.7	29.0	50.7	74.5	93.1	102	102	93.5	74.5	50.5	28.9	13.7	4.98	0.96	0.02	738	---
Φ a	0.00	0.00	0.32	9.43	25.1	46.7	70.2	88.7	97.3	97.5	88.9	70.2	46.5	25.0	9.44	0.25	0.00	0.00	---	676

one-half-peak spread: U:26.3,D:24.9 , L:30.0,R:29.9

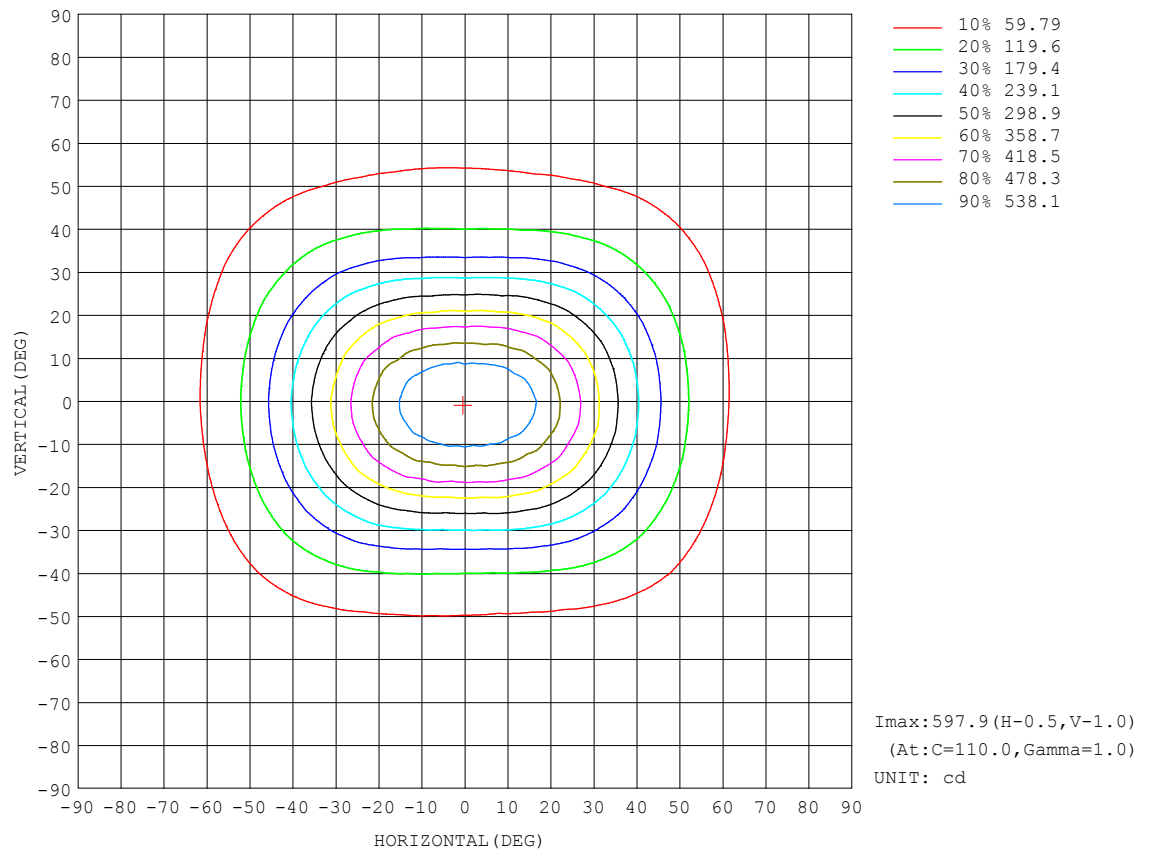
NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-10

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:12.13V I:1.248A P:14.00W PF:0.9249 Freq:59.98Hz Lamp Flux:747.587x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
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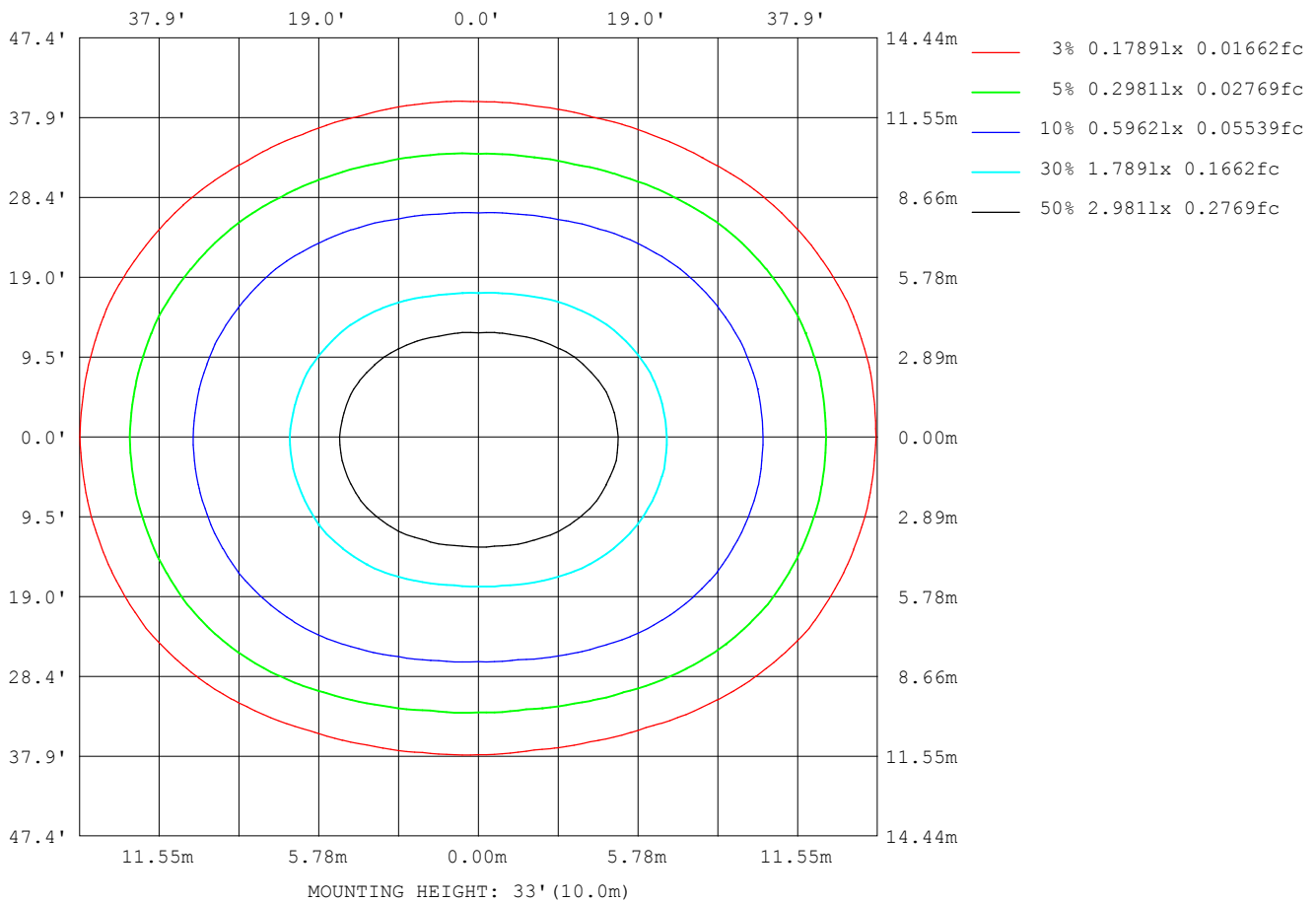


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Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-10

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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:

ISOLUX DIAGRAM

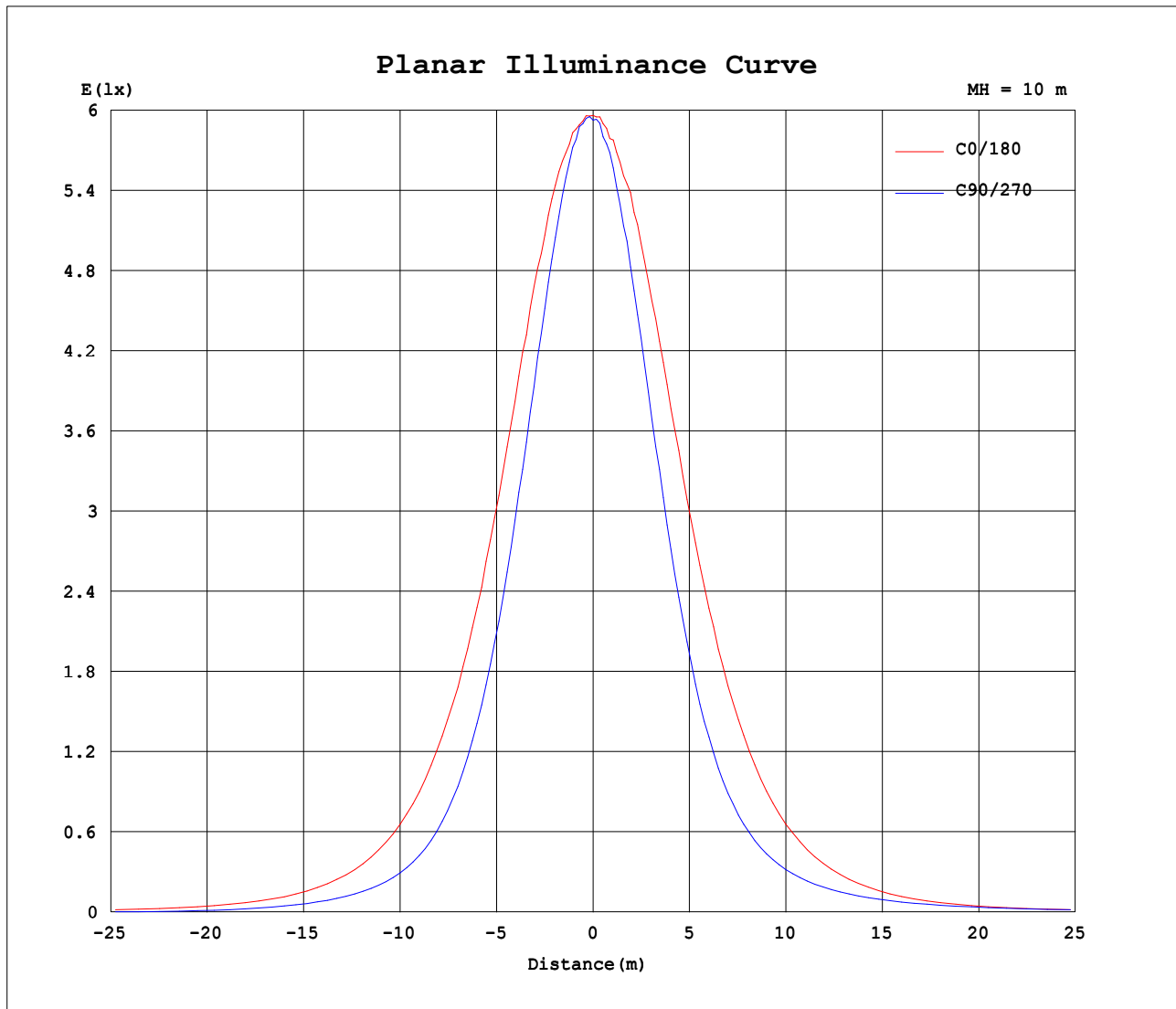
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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-10

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Remarks:

Planar Illuminance Curve

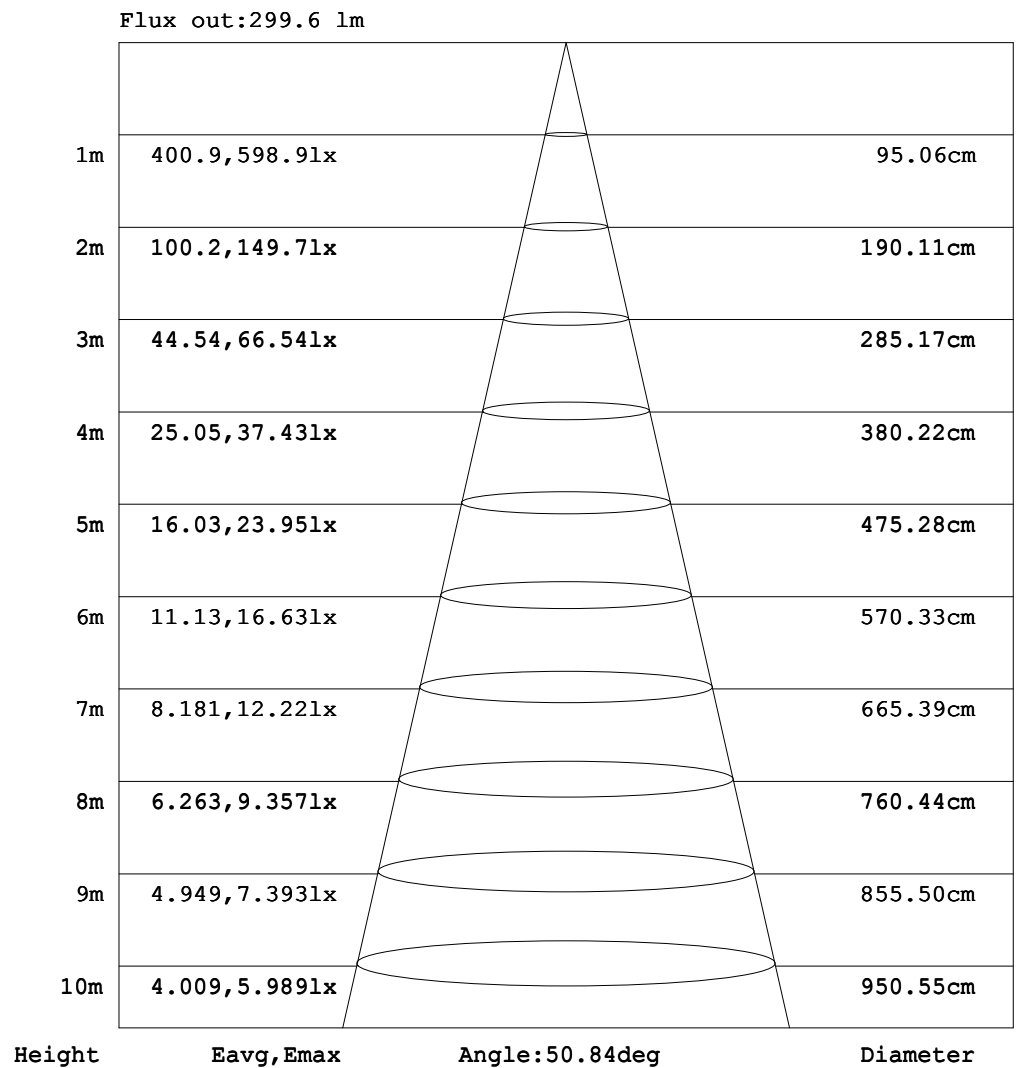


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Test Distance:13.563m [K=1.0000]
Remarks:

AAI Figure

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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
Test Date:2026-02-10

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

Test:U:12.13V I:1.248A P:14.00W PF:0.9249 Freq:59.98Hz Lamp Flux:747.587x1 lm		
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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	0.09	0.29	0.53	0.83	1.22	1.65	2.16	2.70	3.23	3.78	4.33	4.84	5.34	5.80	6.17	6.38
-170	0.00	0.00	0.03	0.16	0.41	0.71	1.11	1.59	2.15	2.77	3.27	3.77	4.23	4.66	5.06	5.40	5.69	5.91	6.03
-160	0.00	0.01	0.06	0.21	0.49	0.83	1.21	1.58	1.98	2.40	2.85	3.26	3.69	4.05	4.38	4.68	4.89	5.09	5.17
-150	0.00	0.01	0.08	0.24	0.50	0.73	0.98	1.26	1.61	1.95	2.29	2.59	2.87	3.17	3.41	3.60	3.79	3.89	3.94
-140	0.00	0.01	0.08	0.25	0.39	0.57	0.74	0.97	1.21	1.43	1.63	1.83	2.05	2.21	2.33	2.48	2.56	2.60	2.65
-130	0.00	0.00	0.07	0.18	0.28	0.40	0.54	0.69	0.82	0.95	1.06	1.19	1.28	1.33	1.42	1.49	1.53	1.53	1.55
-120	0.00	0.00	0.04	0.11	0.16	0.26	0.33	0.42	0.48	0.55	0.63	0.69	0.71	0.73	0.77	0.79	0.77	0.79	0.82
-110	0.00	0.00	0.01	0.03	0.06	0.14	0.19	0.21	0.24	0.29	0.31	0.33	0.30	0.33	0.36	0.36	0.35	0.37	0.37
-100	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.04	0.02	0.06	0.09	0.08	0.06	0.08	0.11	0.11	0.12	0.12	0.12
-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	0.08	0.14	0.34	0.61	0.94	1.37	1.79	2.01	2.20	2.31	2.40	2.34	2.37	2.30
-60	0.00	0.00	0.00	0.17	0.65	1.60	3.83	7.29	11.2	14.9	17.9	20.2	21.7	22.9	23.9	24.5	24.8	25.0	24.9
-50	0.00	0.00	0.14	0.95	3.39	8.30	15.4	23.0	30.3	37.2	43.4	48.5	52.7	55.0	57.2	58.3	59.4	59.4	58.6
-40	0.00	0.00	0.54	2.83	9.26	18.3	28.6	40.4	53.9	68.1	81.6	94.8	105	113	118	120	121	121	120
-30	0.00	0.00	1.19	6.12	15.9	27.7	41.9	59.9	81.6	106	134	159	185	207	224	233	237	237	239
-20	0.00	0.01	2.02	9.58	21.5	35.8	54.3	78.6	109	145	186	230	276	316	350	377	390	399	399
-10	0.00	0.02	2.82	12.4	25.4	41.6	63.6	92.6	130	176	228	286	346	405	457	498	525	540	545
0	0.00	0.02	3.35	14.2	27.6	44.5	67.7	98.6	138	186	245	308	376	438	496	540	571	586	596
10	0.00	0.06	3.74	14.5	27.6	43.8	65.3	93.2	129	174	224	281	340	396	443	479	508	522	526
20	0.00	0.09	3.63	13.7	26.0	40.3	58.2	81.0	109	143	181	221	263	300	332	353	367	374	374
30	0.00	0.08	3.05	12.1	23.0	34.6	48.4	65.2	83.8	105	129	152	175	193	208	217	219	221	220
40	0.00	0.05	2.18	9.57	18.8	28.1	38.3	48.6	60.3	72.0	84.0	95.1	104	112	117	119	120	120	119
50	0.00	0.02	1.27	6.49	14.0	21.5	28.2	34.9	41.5	47.7	53.6	58.2	62.4	65.7	68.3	69.7	71.2	71.6	71.0
60	0.00	0.00	0.49	3.46	8.96	14.6	19.3	23.7	27.6	31.0	34.2	36.9	39.7	41.9	44.1	45.8	47.1	47.7	47.6
70	0.00	0.00	0.08	1.20	4.03	7.70	11.2	14.2	16.8	18.9	20.9	22.8	24.7	26.4	27.8	29.0	29.8	30.2	30.3
80	0.00	0.00	0.00	0.08	0.55	1.80	3.57	5.36	7.07	8.30	9.38	10.4	11.5	12.2	12.8	13.4	13.8	13.9	13.9
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
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	0.01	0.02	0.09	0.13	0.17	0.17	0.23	0.25	0.23	0.24	0.28	0.28	0.28
130	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.20	0.31	0.43	0.53	0.60	0.68	0.79	0.81	0.83	0.89	0.92	0.91
140	0.00	0.00	0.00	0.00	0.04	0.18	0.33	0.49	0.63	0.81	1.01	1.18	1.33	1.49	1.65	1.73	1.83	1.90	1.90
150	0.00	0.00	0.00	0.01	0.13	0.29	0.50	0.74	0.99	1.25	1.54	1.86	2.16	2.42	2.66	2.89	3.02	3.16	3.20
160	0.00	0.00	0.00	0.02	0.18	0.39	0.63	0.94	1.31	1.71	2.11	2.52	2.93	3.33	3.69	3.97	4.26	4.45	4.52
170	0.00	0.00	0.00	0.06	0.25	0.47	0.77	1.11	1.52	1.99	2.50	3.01	3.53	4.04	4.47	4.89	5.28	5.55	5.64
180	0.00	0.00	0.00	0.09	0.29	0.53	0.83	1.22	1.65	2.16	2.70	3.23	3.78	4.33	4.84	5.34	5.80	6.17	6.34

H(β) Range:-90 - 90DEG
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 Humidity:65.0%
 Test Distance:13.563m [K=1.0000]
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SPEC.:15W 2700K 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	6.26	6.05	5.78	5.33	4.89	4.42	3.97	3.37	2.87	2.29	1.79	1.39	0.93	0.60	0.38	0.17	0.00	0.00	
-170	5.97	5.81	5.54	5.15	4.72	4.24	3.77	3.26	2.76	2.24	1.74	1.32	0.93	0.61	0.37	0.18	0.00	0.00	
-160	5.13	4.98	4.78	4.45	4.09	3.71	3.30	2.86	2.39	1.96	1.57	1.19	0.86	0.57	0.34	0.17	0.01	0.00	
-150	3.91	3.84	3.64	3.46	3.21	2.91	2.61	2.29	1.94	1.60	1.25	0.97	0.71	0.50	0.31	0.15	0.00	0.00	
-140	2.61	2.57	2.49	2.34	2.23	2.05	1.84	1.66	1.43	1.20	0.95	0.74	0.57	0.38	0.25	0.12	0.00	0.00	
-130	1.52	1.52	1.49	1.43	1.35	1.29	1.19	1.07	0.93	0.82	0.68	0.54	0.39	0.29	0.19	0.07	0.00	0.00	
-120	0.79	0.77	0.79	0.78	0.76	0.71	0.68	0.63	0.54	0.49	0.44	0.34	0.27	0.18	0.11	0.03	0.00	0.00	
-110	0.35	0.33	0.36	0.37	0.33	0.31	0.33	0.31	0.29	0.25	0.20	0.18	0.14	0.07	0.02	0.00	0.00	0.00	
-100	0.10	0.07	0.09	0.11	0.11	0.10	0.09	0.10	0.10	0.06	0.05	0.05	0.02	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	2.29	2.20	2.21	2.08	1.96	1.77	1.53	1.14	0.77	0.49	0.27	0.09	0.05	0.01	0.00	0.00	0.00	0.00	
-60	24.6	24.0	23.6	22.8	21.7	20.6	19.0	16.8	14.0	10.4	6.59	3.33	1.33	0.51	0.14	0.01	0.00	0.00	
-50	58.0	57.2	56.1	55.0	52.7	50.5	46.8	42.1	36.1	29.7	22.7	15.0	7.71	2.97	0.78	0.12	0.00	0.00	
-40	119	119	118	114	110	102	91.8	79.5	66.6	53.1	39.9	28.6	18.1	8.74	2.46	0.45	0.00	0.00	
-30	238	238	232	221	204	182	156	131	105	80.8	59.5	41.8	27.8	15.7	5.54	0.99	0.02	0.00	
-20	399	392	378	350	315	275	229	185	144	108	78.2	54.3	35.9	21.4	8.99	1.68	0.05	0.00	
-10	540	527	503	462	406	348	286	228	175	129	92.0	63.1	41.7	25.4	11.8	2.32	0.07	0.00	
0	593	580	547	505	443	374	306	245	186	136	97.5	67.2	44.6	27.5	13.6	2.75	0.09	0.00	
10	523	511	487	448	401	342	283	225	174	129	93.4	65.3	44.1	27.8	14.2	3.26	0.12	0.00	
20	375	369	357	334	301	263	221	181	143	109	81.5	59.0	41.0	26.5	13.6	3.30	0.12	0.00	
30	221	220	217	208	193	174	152	128	105	84.2	65.7	49.3	35.5	23.7	12.1	2.84	0.09	0.00	
40	120	119	118	115	110	103	94.6	83.7	72.2	60.6	49.4	39.1	28.9	19.3	9.67	2.05	0.04	0.00	
50	70.6	69.7	68.4	67.0	64.8	61.6	57.9	53.5	47.9	42.0	35.5	28.9	22.1	14.4	6.41	1.18	0.01	0.00	
60	47.1	46.2	45.0	43.4	41.6	39.6	37.0	34.5	31.6	28.1	24.3	19.8	14.9	9.03	3.34	0.46	0.00	0.00	
70	30.1	29.7	28.8	27.7	26.3	24.9	23.0	21.1	19.3	17.1	14.5	11.4	7.70	3.86	1.08	0.06	0.00	0.00	
80	13.9	13.7	13.3	12.8	12.2	11.4	10.4	9.36	8.30	7.02	5.23	3.39	1.64	0.47	0.07	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	0.28	0.28	0.28	0.29	0.26	0.24	0.18	0.17	0.17	0.09	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
130	0.91	0.89	0.85	0.83	0.79	0.71	0.63	0.54	0.44	0.34	0.24	0.16	0.07	0.00	0.00	0.01	0.00	0.00	
140	1.91	1.85	1.78	1.68	1.53	1.37	1.24	1.04	0.85	0.66	0.50	0.34	0.18	0.05	0.00	0.04	0.00	0.00	
150	3.21	3.09	2.95	2.75	2.47	2.22	1.92	1.60	1.28	1.01	0.76	0.52	0.31	0.14	0.07	0.07	0.00	0.00	
160	4.50	4.36	4.10	3.77	3.39	2.96	2.55	2.16	1.73	1.34	0.97	0.64	0.43	0.28	0.15	0.11	0.00	0.00	
170	5.61	5.35	4.96	4.54	4.05	3.53	3.01	2.48	2.00	1.66	1.30	1.00	0.70	0.47	0.27	0.14	0.00	0.00	
180	6.26	6.05	5.78	5.33	4.89	4.42	3.97	3.37	2.87	2.29	1.79	1.39	0.93	0.60	0.38	0.17	0.00	0.00	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-02-10

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: