

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

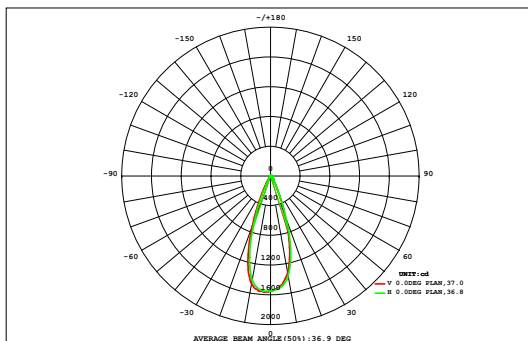
Maximum Intensity		2447.1 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	56.2V x 57.9H
	At 50% of Imax	36.8V x 37.0H
	At 90% of Imax	19.9V x 19.4H
Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	879.1 lumens per klm.
	To 50% of Imax	608.8 lumens per klm.
	To 90% of Imax	210.1 lumens per klm.
	Upward LOR	1.4 %
	Downward LOR	98.7 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

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:12.15V I:0.6770A P:7.534W PF:0.9162 Freq:59.99Hz Lamp Flux:640.534x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:8W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:85.02lm/W	
MODEL	D5A1-8W-27K-BZ	Imax (cd)	1567
NOMINAL POWER (W)	8	AVAILABILITY (%)	87.8
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	562.5
NOMINAL FLUX (lm)	640.534	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	640.5
TEST VOLTAGE (V)	12	θ @50% (H,V)	37,37DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.03	0.06	0.11	0.16	0.22	0.28	0.32	0.36	0.37	0.37	0.35	0.32	0.27	0.23	0.18	0.13	0.09	0.05	3.90	0.00
45	0.03	0.06	0.11	0.16	0.22	0.28	0.32	0.36	0.37	0.37	0.35	0.32	0.27	0.23	0.18	0.13	0.09	0.05	3.90	0.00
40	0.05	0.09	0.15	0.24	0.33	0.42	0.49	0.54	0.56	0.56	0.53	0.47	0.40	0.32	0.25	0.18	0.12	0.07	5.76	0.00
35	0.06	0.12	0.21	0.33	0.47	0.61	0.72	0.82	0.87	0.86	0.80	0.69	0.57	0.45	0.34	0.24	0.15	0.09	8.42	0.00
30	0.08	0.15	0.28	0.46	0.66	0.89	1.17	1.45	1.63	1.60	1.38	1.09	0.83	0.62	0.45	0.31	0.19	0.11	13.4	6.30
25	0.09	0.19	0.36	0.61	0.96	1.49	2.27	3.04	3.49	3.41	2.84	2.06	1.32	0.87	0.59	0.39	0.23	0.13	24.3	19.8
20	0.11	0.22	0.44	0.82	1.48	2.66	4.22	5.65	6.41	6.25	5.27	3.76	2.30	1.27	0.75	0.47	0.27	0.14	42.5	38.9
15	0.11	0.24	0.52	1.08	2.24	4.26	6.66	8.47	9.28	9.07	7.90	5.87	3.59	1.87	0.96	0.55	0.30	0.15	63.1	60.1
10	0.11	0.25	0.57	1.34	3.05	5.82	8.68	10.4	11.1	10.8	9.75	7.63	4.85	2.50	1.17	0.59	0.30	0.15	79.1	76.5
5	0.10	0.24	0.58	1.50	3.57	6.77	9.79	11.4	11.7	11.5	10.6	8.56	5.59	2.90	1.31	0.61	0.29	0.14	87.0	84.7
0	0.09	0.21	0.52	1.46	3.61	6.86	9.90	11.5	11.8	11.6	10.6	8.59	5.64	2.94	1.30	0.57	0.26	0.13	87.6	85.4
-5	0.07	0.17	0.41	1.15	2.97	5.93	8.94	10.8	11.4	11.1	9.91	7.71	4.91	2.53	1.09	0.46	0.21	0.11	79.9	77.6
-10	0.05	0.12	0.27	0.71	1.99	4.24	6.85	8.83	9.66	9.36	8.05	5.95	3.64	1.82	0.76	0.33	0.16	0.08	62.8	60.5
-15	0.03	0.07	0.16	0.38	1.00	2.32	4.10	5.69	6.48	6.32	5.25	3.68	2.13	1.01	0.45	0.21	0.11	0.05	39.4	36.9
-20	0.01	0.04	0.08	0.19	0.40	0.91	1.72	2.58	3.07	3.02	2.46	1.63	0.91	0.46	0.24	0.13	0.06	0.03	18.0	14.7
-25	0.01	0.01	0.04	0.08	0.16	0.30	0.53	0.79	0.96	0.95	0.77	0.53	0.33	0.20	0.11	0.06	0.03	0.01	5.87	1.17
-30	0.00	0.00	0.01	0.03	0.05	0.09	0.15	0.21	0.25	0.25	0.22	0.17	0.12	0.07	0.04	0.02	0.01	0.01	1.70	0.00
-35	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.41	0.00
-40	0.00	0.00	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	0.05	0.00
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL (DEG) 10 15 20 25 30 35 40 45																				
Φ t	0.99	2.18	4.71	10.5	23.2	43.9	66.5	82.6	89.1	87.1	76.7	58.7	37.4	20.1	10.0	5.25	2.80	1.45	623	---
Φ a	0.00	0.00	0.00	5.21	19.5	40.6	63.5	79.7	86.4	84.2	73.8	55.7	34.0	16.0	3.99	0.00	0.00	0.00	---	563

one-half-peak spread: U:12.5,D:19.0 , L:13.5,R:20.6

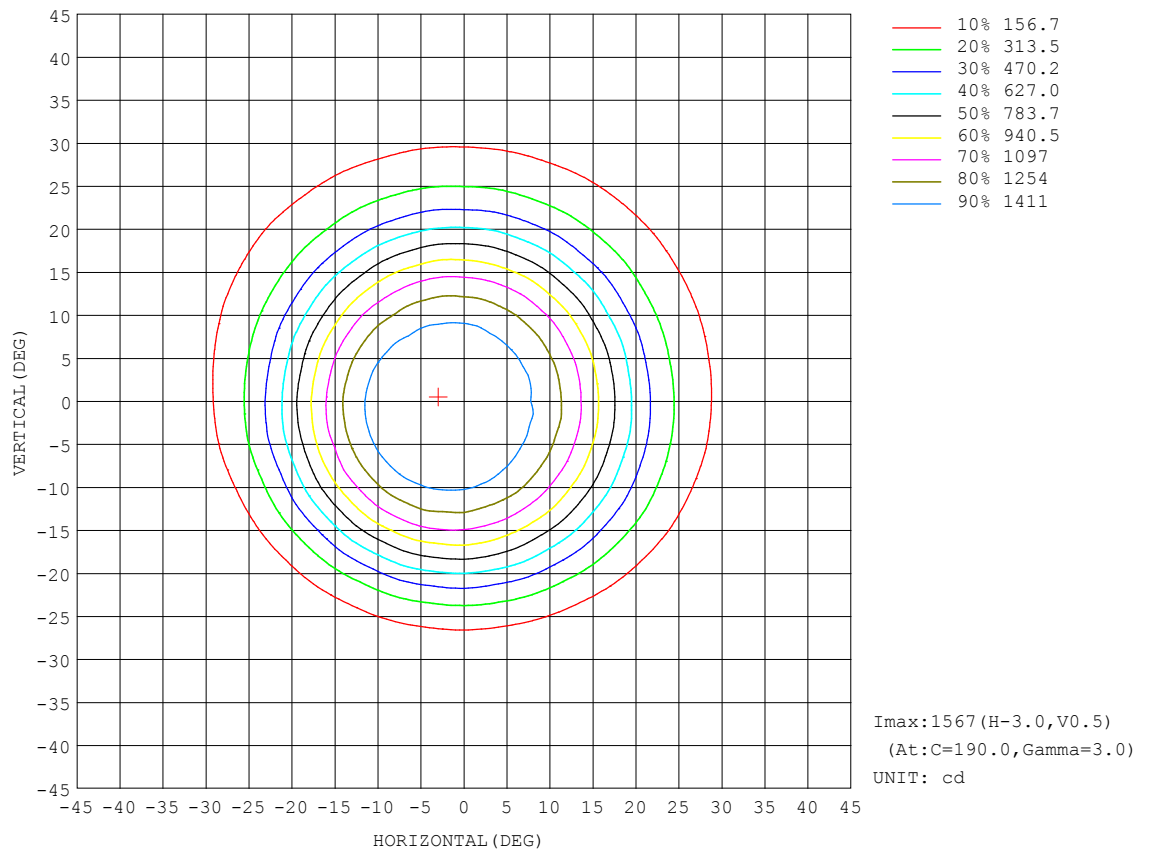
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

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:12.15V I:0.6770A P:7.534W PF:0.9162 Freq:59.99Hz Lamp Flux:640.534x1 lm		
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SPEC.:8W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

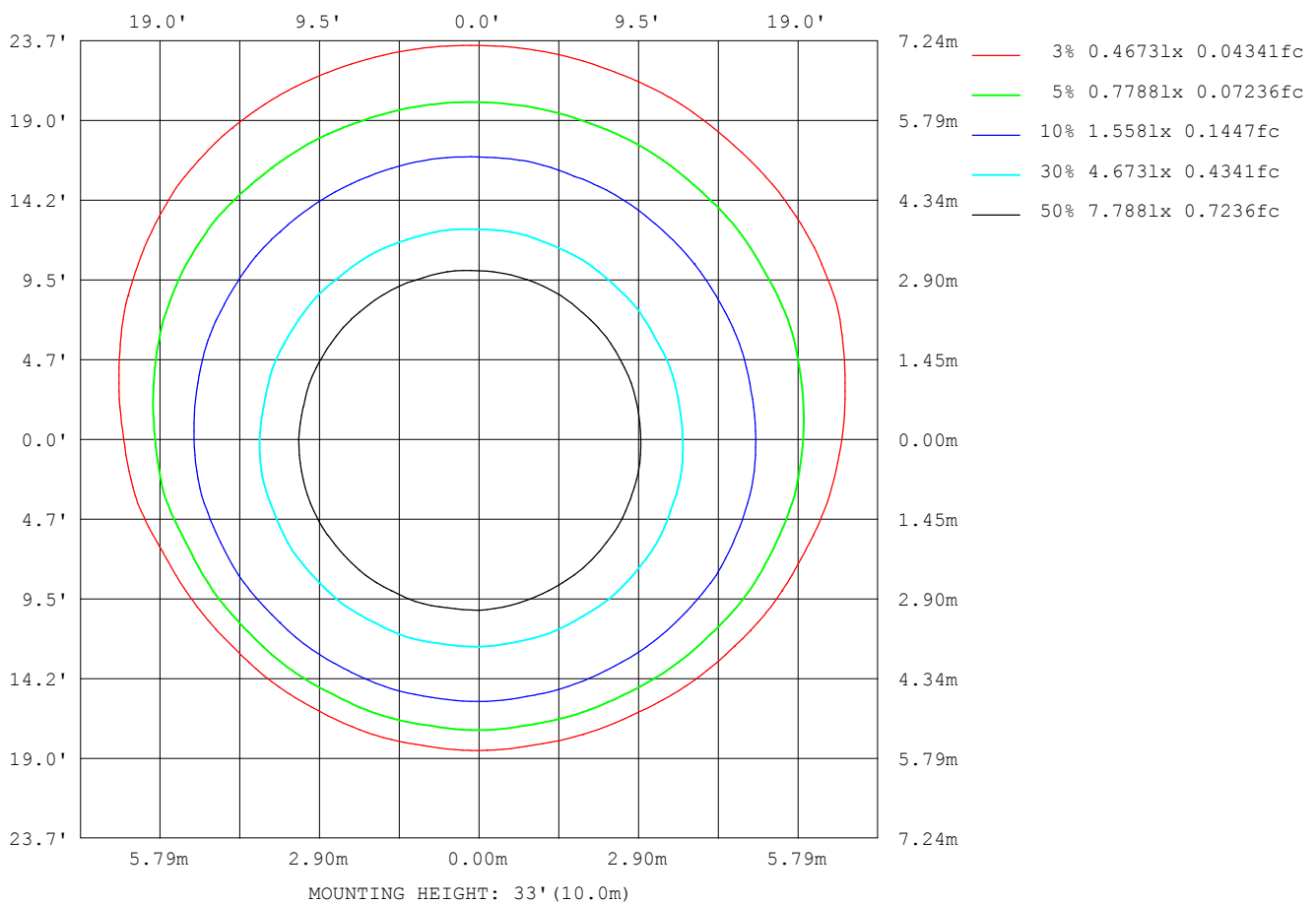


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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

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

ISOLUX DIAGRAM

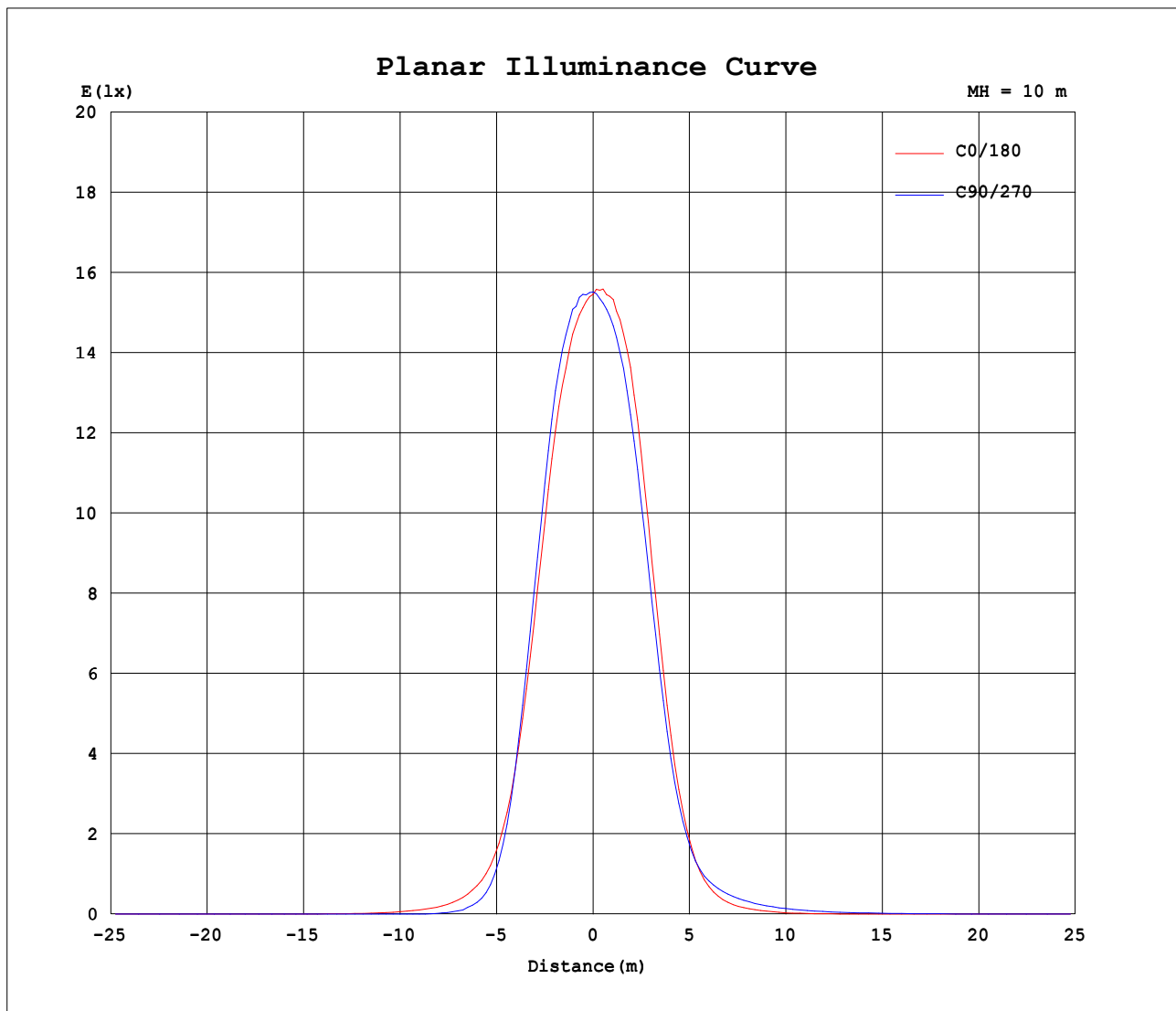
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Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

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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:

Planar Illuminance Curve

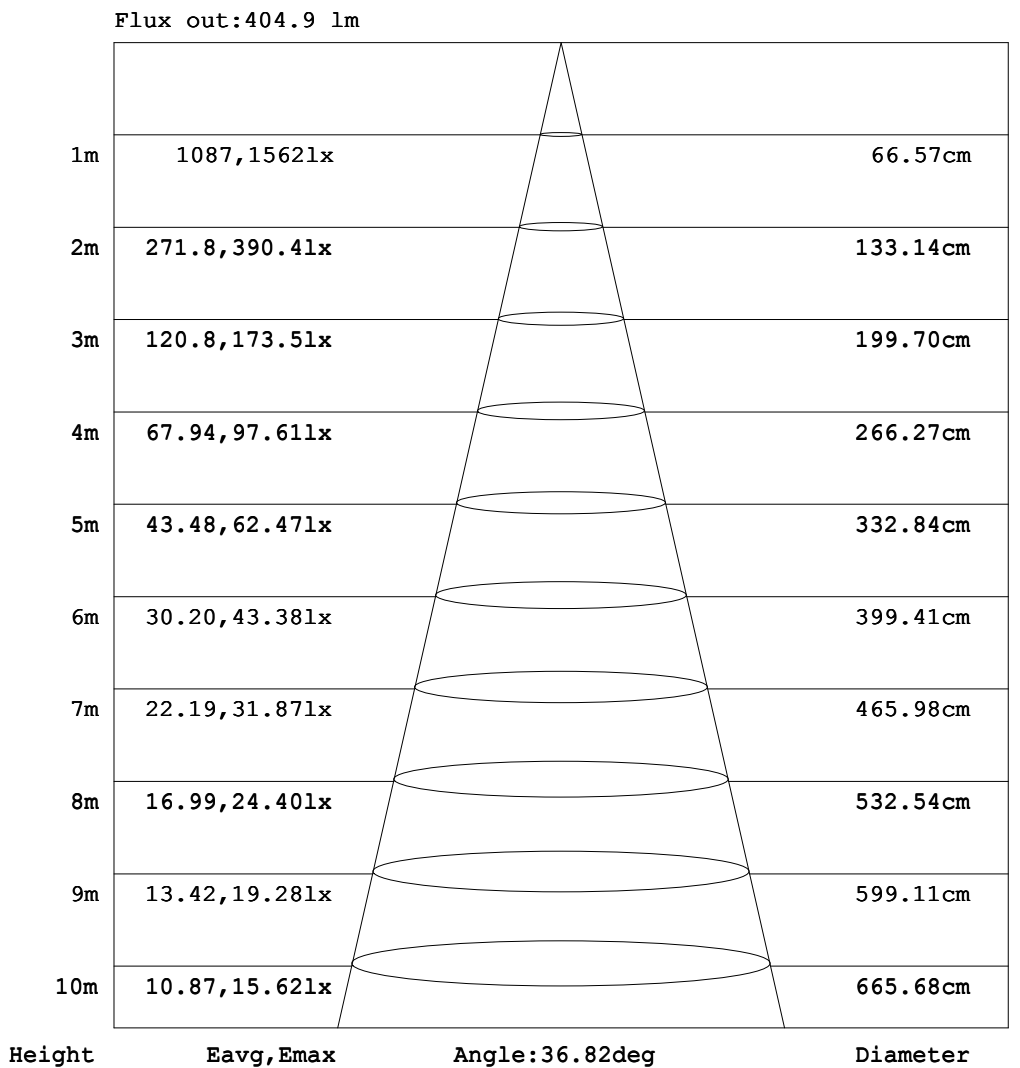


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AAI Figure

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NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:8W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



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:2026-01-24

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

LUMINOUS DISTRIBUTION INTENSITY DATA

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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	0.00	0.00	0.00	0.00	0.11	0.45	1.08	2.07	3.33	4.78	6.21	7.46	8.40	9.14	9.54
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17	0.52	1.26	2.24	3.45	4.83	6.29	7.61	8.66	9.21	9.47
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.45	0.91	1.65	2.62	3.73	4.87	6.00	7.01	7.76	8.24	8.45
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.25	0.52	0.97	1.54	2.25	3.04	3.80	4.50	5.09	5.43	5.61
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.24	0.44	0.67	1.03	1.39	1.78	2.17	2.47	2.69	2.81
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.14	0.22	0.32	0.42	0.55	0.70	0.79	0.87	0.90
-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	0.02	0.04	0.12	0.14	0.16	0.17	0.20
-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
-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
-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.11	0.23	0.49	0.93	1.53	2.18	2.63
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.15	0.30	0.73	2.00	4.61	9.20	16.7	29.4	44.3	54.9	60.7
-20	0.00	0.00	0.00	0.00	0.00	0.01	0.15	0.35	0.75	1.95	5.24	12.1	26.4	55.3	133	283	455	588	628
-10	0.00	0.00	0.00	0.00	0.00	0.09	0.32	0.76	2.29	6.54	16.2	33.7	78.4	220	517	910	1237	1400	1422
0	0.00	0.00	0.00	0.00	0.00	0.15	0.45	1.24	4.01	9.92	24.5	53.2	132	346	732	1183	1474	1558	1546
10	0.00	0.00	0.00	0.01	0.07	0.28	0.67	1.85	5.29	12.9	28.1	57.6	121	257	523	884	1189	1340	1366
20	0.00	0.00	0.00	0.01	0.10	0.33	0.72	1.94	5.22	12.0	24.5	45.5	80.5	131	211	341	496	610	641
30	0.00	0.00	0.00	0.00	0.11	0.33	0.67	1.56	3.94	8.50	16.8	29.4	47.5	68.4	89.8	110	128	144	147
40	0.00	0.00	0.00	0.00	0.08	0.26	0.55	1.08	2.40	5.01	9.30	16.1	24.4	33.6	43.3	50.5	56.3	59.7	60.0
50	0.00	0.00	0.00	0.00	0.07	0.16	0.43	0.73	1.25	2.34	4.19	6.81	10.4	14.8	18.4	21.6	23.9	25.2	25.4
60	0.00	0.00	0.00	0.00	0.00	0.14	0.29	0.52	0.75	1.03	1.59	2.37	3.45	4.66	5.86	7.02	8.05	8.61	8.86
70	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.30	0.44	0.65	0.83	1.00	1.19	1.44	1.73	1.96	2.17	2.32	2.43
80	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.12	0.20	0.33	0.45	0.55	0.63	0.76	0.88	0.96	1.03	1.10	1.16
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.12	0.21	0.25	0.29	0.35	0.41	0.43	0.44	0.50	0.56
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.09	0.15	0.15	0.16	0.20	0.25
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	0.00	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
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	0.01	0.13	0.32	0.48	0.67	0.80	0.85
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.30	0.70	1.19	1.78	2.34	2.81	3.17	3.32
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.46	1.00	1.82	2.79	3.80	4.73	5.51	6.00	6.19
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.31	0.88	1.72	2.87	4.16	5.46	6.60	7.47	8.02	8.24
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.45	1.08	2.07	3.33	4.78	6.21	7.46	8.40	9.14	9.53

H(β) Range:-90 - 90DEG
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Operators:ADMIN
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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	9.47	9.22	8.97	8.25	7.09	5.61	4.11	2.72	1.54	0.70	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-170	9.44	9.23	8.78	7.90	6.64	5.24	3.82	2.53	1.46	0.67	0.21	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-160	8.32	7.94	7.27	6.34	5.23	4.07	2.91	1.86	1.02	0.45	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-150	5.52	5.23	4.71	4.06	3.29	2.48	1.71	1.07	0.58	0.22	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-140	2.73	2.56	2.29	1.89	1.50	1.12	0.73	0.43	0.22	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	0.88	0.81	0.73	0.60	0.44	0.32	0.21	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-120	0.17	0.15	0.15	0.11	0.02	0.01	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	
-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	
-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-40	2.66	2.39	1.90	1.27	0.91	0.58	0.41	0.32	0.24	0.16	0.13	0.09	0.05	0.00	0.00	0.01	0.00	0.00	
-30	54.8	44.7	32.7	22.0	13.1	7.82	4.52	2.30	1.16	0.64	0.45	0.28	0.15	0.04	0.03	0.02	0.00	0.00	
-20	562	421	265	135	65.3	34.1	19.5	9.08	4.56	2.09	0.97	0.56	0.32	0.18	0.08	0.04	0.00	0.00	
-10	1316	1090	769	440	205	88.3	41.7	22.7	10.7	4.86	1.99	0.90	0.52	0.29	0.14	0.05	0.00	0.00	
0	1489	1327	994	588	288	130	64.0	32.8	17.3	7.66	3.20	1.32	0.70	0.39	0.20	0.07	0.00	0.00	
10	1284	1077	755	431	216	116	65.8	36.2	19.1	9.13	3.97	1.61	0.78	0.45	0.23	0.08	0.00	0.00	
20	584	453	302	182	118	81.5	52.9	31.9	18.2	8.92	3.96	1.60	0.78	0.47	0.23	0.08	0.00	0.00	
30	140	123	104	84.3	66.3	50.2	34.7	22.6	13.2	6.89	3.25	1.45	0.76	0.44	0.21	0.08	0.00	0.00	
40	58.9	54.5	48.7	41.9	34.4	27.1	20.0	13.4	7.77	4.25	2.18	1.12	0.69	0.42	0.19	0.07	0.00	0.00	
50	25.0	23.7	21.8	19.3	16.3	12.7	9.16	6.12	3.80	2.26	1.34	0.88	0.59	0.34	0.16	0.05	0.00	0.00	
60	8.76	8.30	7.48	6.57	5.53	4.43	3.38	2.44	1.69	1.22	0.96	0.71	0.46	0.25	0.13	0.02	0.00	0.00	
70	2.43	2.38	2.27	2.11	1.84	1.61	1.41	1.22	1.00	0.84	0.66	0.49	0.32	0.17	0.07	0.00	0.00	0.00	
80	1.15	1.13	1.12	1.10	1.00	0.91	0.83	0.73	0.61	0.48	0.40	0.32	0.21	0.11	0.04	0.00	0.00	0.00	
90	0.55	0.55	0.55	0.55	0.50	0.45	0.44	0.42	0.36	0.30	0.24	0.19	0.10	0.00	0.00	0.00	0.00	0.00	
100	0.23	0.21	0.24	0.25	0.21	0.18	0.18	0.19	0.15	0.11	0.08	0.05	0.04	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	0.00	0.00	0.00	0.00	0.00	0.00	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	
140	0.81	0.68	0.52	0.34	0.11	0.00	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	3.23	2.94	2.51	1.94	1.33	0.77	0.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	6.11	5.73	5.03	4.14	3.10	2.07	1.15	0.49	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	8.07	7.63	6.91	5.89	4.62	3.26	2.00	0.98	0.31	0.10	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180	9.47	9.22	8.97	8.25	7.09	5.61	4.11	2.72	1.54	0.70	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

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: