

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2427.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	55.4V x 55.6H
	At 50% of Imax	38.2V x 38.7H
	At 90% of Imax	18.9V x 19.3H

Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	885.9 lumens per klm.
	To 50% of Imax	649.7 lumens per klm.
	To 90% of Imax	196.6 lumens per klm.

Upward LOR	1.4 %
Downward LOR	98.6 %

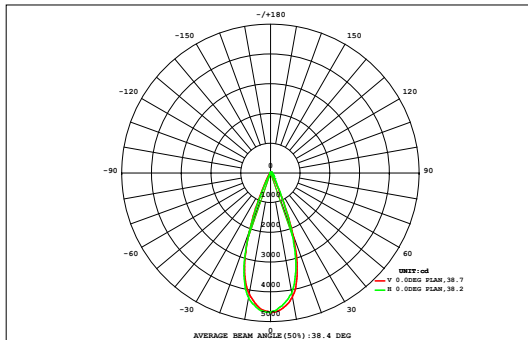
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:12.07V I:2.608A P:24.75W PF:0.7862 Freq:59.99Hz Lamp Flux:1935.13x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 3000K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:78.20lm/W	
MODEL	D7B1-23W-A	Imax (cd)	4697
NOMINAL POWER (W)	23	AVAILABILITY (%)	88.6
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	1714
NOMINAL FLUX (lm)	1935.13	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1935
TEST VOLTAGE (V)	12	θ @50% (H,V)	39,38DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.11	0.18	0.29	0.43	0.59	0.75	0.91	1.03	1.08	1.08	1.01	0.88	0.72	0.56	0.40	0.26	0.16	0.10	10.5	0.00
45	0.11	0.18	0.29	0.43	0.59	0.75	0.91	1.03	1.08	1.08	1.01	0.88	0.72	0.56	0.40	0.26	0.16	0.10	10.5	0.00
40	0.14	0.25	0.41	0.61	0.86	1.13	1.38	1.58	1.68	1.67	1.56	1.34	1.08	0.82	0.57	0.37	0.22	0.13	15.8	0.00
35	0.18	0.33	0.55	0.85	1.24	1.67	2.07	2.40	2.57	2.57	2.39	2.04	1.62	1.18	0.80	0.51	0.30	0.16	23.4	0.00
30	0.23	0.42	0.72	1.17	1.75	2.45	3.23	4.04	4.64	4.64	4.05	3.23	2.43	1.70	1.11	0.67	0.38	0.20	37.1	16.4
25	0.27	0.51	0.91	1.55	2.48	3.91	6.30	8.98	10.8	10.8	9.00	6.30	3.93	2.47	1.51	0.86	0.47	0.24	71.3	58.3
20	0.30	0.59	1.11	2.00	3.70	7.37	12.8	17.6	20.3	20.3	17.6	12.8	7.41	3.79	1.99	1.07	0.55	0.27	132	122
15	0.32	0.65	1.29	2.56	5.81	12.5	20.1	25.4	28.0	28.1	25.5	20.2	12.7	5.96	2.62	1.26	0.61	0.29	194	186
10	0.32	0.67	1.39	3.14	8.31	17.1	25.3	30.3	32.4	32.5	30.3	25.5	17.6	8.62	3.27	1.39	0.63	0.29	239	231
5	0.30	0.64	1.39	3.50	9.85	19.6	27.8	32.4	34.6	34.7	32.8	28.3	20.3	10.3	3.62	1.37	0.60	0.26	262	256
0	0.26	0.57	1.26	3.41	9.90	19.8	27.9	32.6	35.0	35.3	33.4	28.9	20.7	10.4	3.44	1.20	0.51	0.22	265	258
-5	0.21	0.47	1.02	2.67	8.05	17.3	25.7	30.9	33.3	33.7	31.7	26.7	18.1	8.29	2.62	0.93	0.40	0.17	242	236
-10	0.15	0.33	0.72	1.70	5.15	12.4	20.5	26.3	29.2	29.5	27.0	21.2	12.8	5.11	1.60	0.63	0.28	0.13	195	188
-15	0.10	0.21	0.45	0.96	2.45	6.44	12.5	17.8	20.8	21.1	18.2	12.7	6.38	2.30	0.86	0.38	0.18	0.08	124	117
-20	0.06	0.13	0.25	0.49	0.99	2.28	4.74	7.75	9.68	9.72	7.79	4.69	2.16	0.88	0.41	0.20	0.10	0.05	52.4	43.5
-25	0.04	0.07	0.12	0.22	0.39	0.68	1.20	1.91	2.46	2.45	1.88	1.14	0.62	0.34	0.18	0.09	0.05	0.04	13.9	2.30
-30	0.03	0.04	0.05	0.08	0.14	0.21	0.31	0.41	0.47	0.47	0.39	0.28	0.18	0.11	0.06	0.04	0.03	0.03	3.35	0.00
-35	0.03	0.03	0.04	0.04	0.04	0.05	0.07	0.08	0.09	0.09	0.07	0.06	0.04	0.04	0.03	0.03	0.03	0.02	0.88	0.00
-40	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.46	0.00
-45	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.46	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)	10	15	20	25	30	35	40	45			
Φ t	3.08	6.13	12.0	25.4	61.7	126	193	242	267	269	245	196	129	62.9	25.1	11.3	5.53	2.68	1882	---
Φ a	0.00	0.00	0.00	7.87	50.1	116	184	233	259	260	237	188	119	51.7	8.63	0.00	0.00	0.00	---	1714

one-half-peak spread: U:19.3,D:19.1 , L:19.2,R:19.6

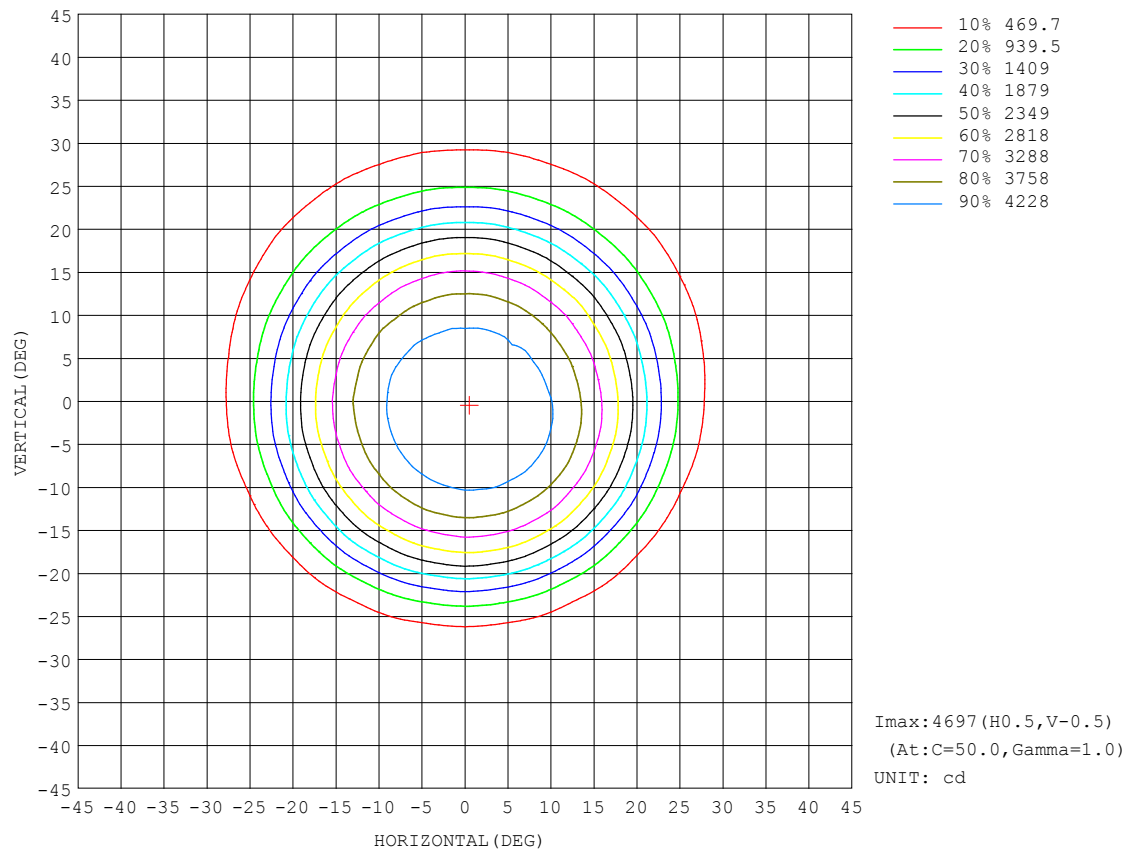
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:12.07V I:2.608A P:24.75W PF:0.7862 Freq:59.99Hz Lamp Flux:1935.13x1 lm		
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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

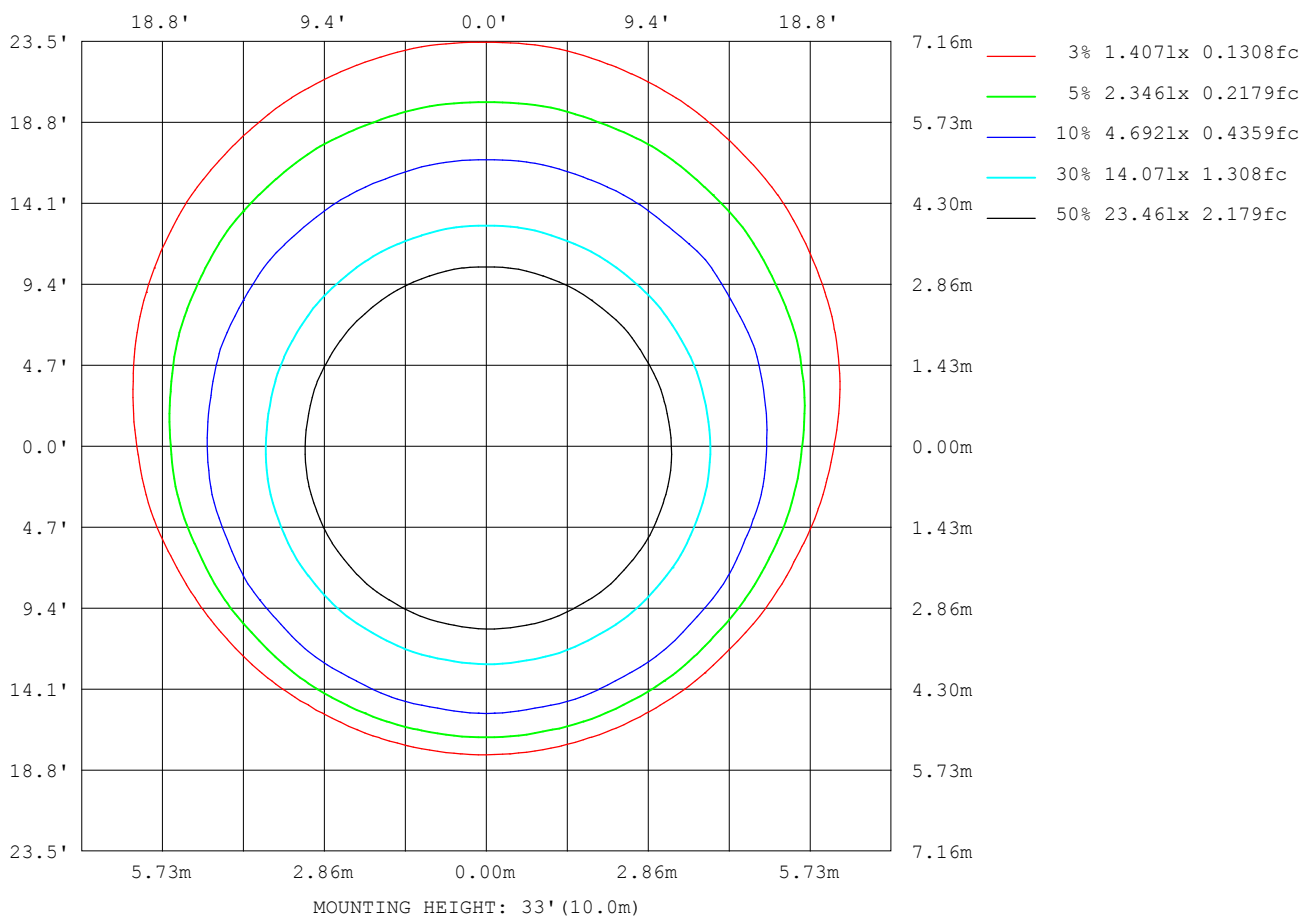


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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:

ISOLUX DIAGRAM

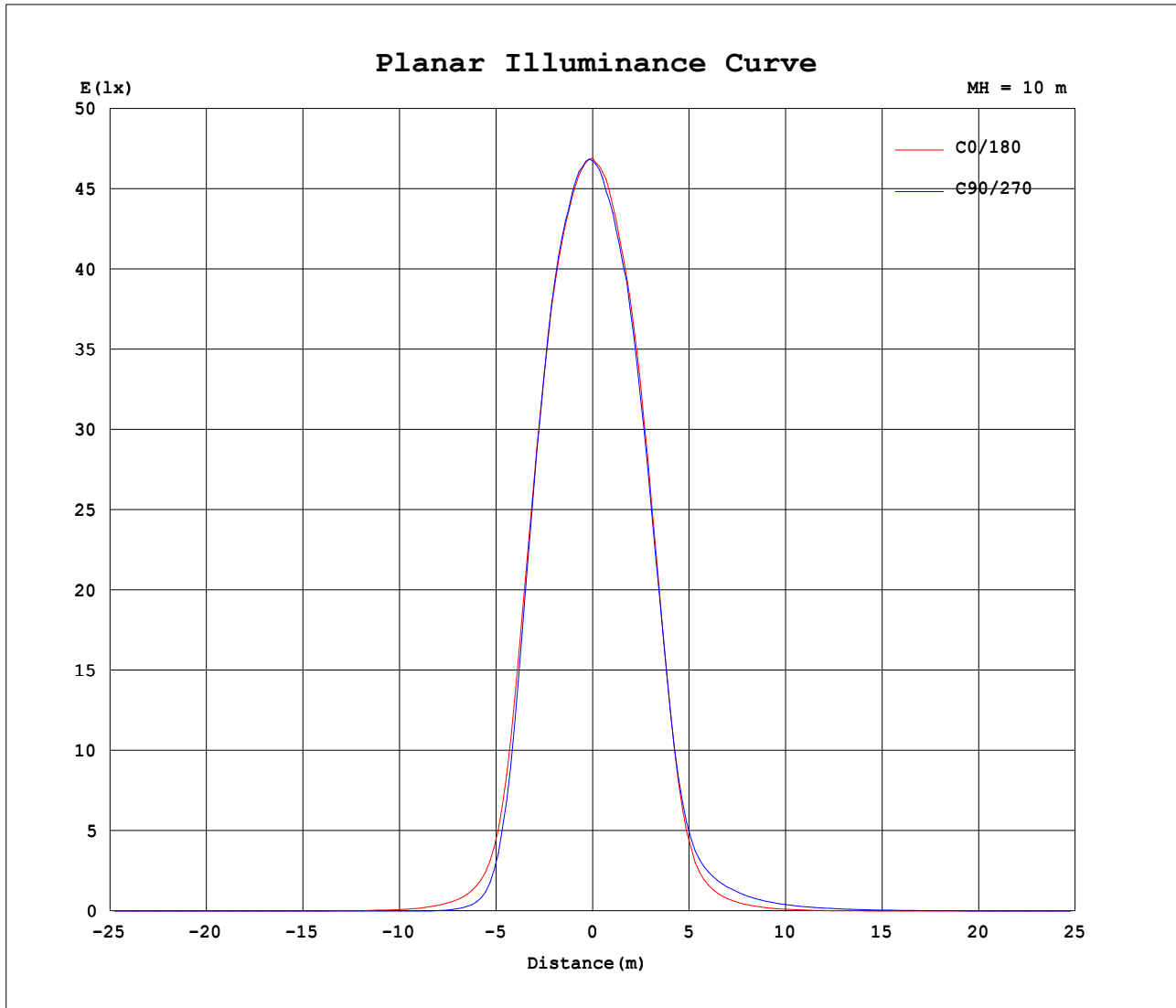
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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:

Planar Illuminance Curve

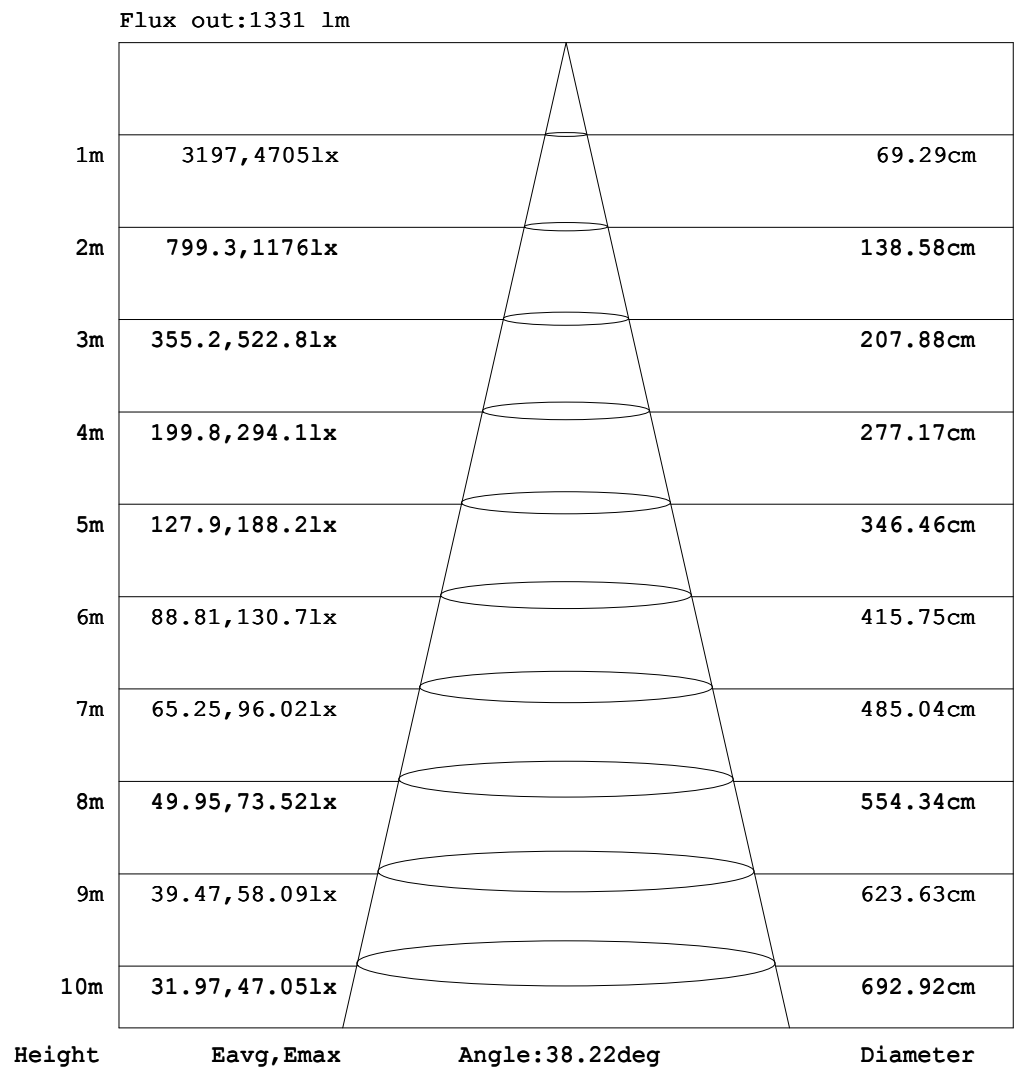


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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:

AAI Figure

Test:U:12.07V I:2.608A P:24.75W PF:0.7862 Freq:59.99Hz Lamp Flux:1935.13x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 3000K 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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H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:12.07V I:2.608A P:24.75W PF:0.7862 Freq:59.99Hz Lamp Flux:1935.13x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight 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	0.00	0.00	0.00	0.15	0.60	1.73	3.93	7.24	11.2	14.9	18.0	20.0	21.3	22.7	23.4
-170	0.00	0.00	0.00	0.01	0.05	0.13	0.31	0.79	2.03	4.53	7.75	11.6	15.8	19.8	23.0	25.0	25.6	25.5	25.5
-160	0.00	0.00	0.00	0.03	0.08	0.22	0.44	0.85	1.74	3.38	5.83	8.89	12.3	15.8	19.0	21.6	23.4	24.5	24.9
-150	0.00	0.00	0.00	0.02	0.09	0.19	0.34	0.60	1.10	2.02	3.46	5.41	7.71	10.1	12.4	14.5	16.0	17.1	17.4
-140	0.00	0.00	0.00	0.01	0.05	0.12	0.23	0.42	0.69	1.07	1.65	2.51	3.61	4.84	6.13	7.25	8.16	8.76	8.93
-130	0.00	0.00	0.00	0.00	0.01	0.04	0.15	0.27	0.40	0.57	0.79	1.08	1.39	1.76	2.17	2.58	2.89	3.10	3.19
-120	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.15	0.19	0.27	0.38	0.51	0.60	0.72	0.84	0.93	0.99	1.06	1.10
-110	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.11	0.17	0.20	0.22	0.29	0.34	0.37	0.37	0.41	0.45
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.03	0.02	0.06	0.09	0.09	0.09	0.11	0.13
-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	0.03	0.01	0.06	0.00	0.03	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	0.01	0.09	0.17	0.28	0.29	0.48	0.48	0.72	0.92	1.21	1.51	1.80	1.97	2.15	2.18	2.16	2.15	2.07
-40	0.00	0.06	0.20	0.46	0.77	1.17	1.68	2.40	3.26	4.06	4.66	4.98	5.01	4.84	4.53	4.29	4.12	4.03	3.90
-30	0.00	0.11	0.38	0.84	1.44	2.29	3.39	4.62	5.67	6.46	7.06	9.45	15.2	26.0	40.8	60.5	89.9	114	127
-20	0.00	0.16	0.57	1.24	2.15	3.46	4.93	6.32	7.63	10.6	19.6	37.0	72.4	139	320	785	1391	1884	2084
-10	0.00	0.19	0.74	1.58	2.79	4.36	6.02	7.65	11.5	22.4	44.4	93.1	193	520	1473	2690	3584	4088	4268
0	0.00	0.22	0.87	1.85	3.27	5.01	6.73	8.87	16.7	33.6	69.9	140	302	855	2099	3374	4137	4538	4691
10	0.00	0.27	0.99	2.06	3.56	5.33	7.11	10.4	20.1	38.9	78.4	149	288	632	1499	2637	3507	3947	4110
20	0.00	0.30	1.05	2.14	3.65	5.38	7.12	10.4	19.3	36.5	68.0	119	202	329	533	939	1500	1928	2086
30	0.00	0.31	1.05	2.11	3.51	5.10	6.73	8.92	15.4	27.4	47.4	78.1	121	176	241	310	366	415	427
40	0.00	0.30	1.00	1.96	3.16	4.58	6.05	7.55	10.6	17.2	28.1	43.6	64.1	87.7	114	138	159	174	177
50	0.00	0.26	0.91	1.72	2.70	3.89	5.11	6.32	7.61	9.87	14.1	20.5	28.8	38.8	49.5	59.5	67.4	72.1	73.2
60	0.00	0.24	0.78	1.43	2.19	3.07	4.06	5.02	5.88	6.74	7.64	9.00	11.2	14.0	16.9	19.7	22.1	23.4	23.8
70	0.00	0.22	0.63	1.12	1.67	2.28	2.96	3.63	4.30	4.87	5.35	5.77	6.16	6.52	6.85	7.09	7.30	7.38	7.39
80	0.00	0.18	0.46	0.82	1.19	1.59	2.02	2.39	2.77	3.09	3.42	3.69	3.96	4.18	4.38	4.48	4.56	4.57	4.56
90	0.00	0.14	0.29	0.52	0.74	1.01	1.27	1.46	1.64	1.80	1.95	2.04	2.12	2.20	2.28	2.28	2.29	2.28	2.27
100	0.00	0.10	0.14	0.27	0.38	0.53	0.68	0.77	0.83	0.92	1.01	1.02	1.05	1.08	1.10	1.07	1.04	1.03	1.03
110	0.00	0.07	0.03	0.11	0.12	0.16	0.25	0.27	0.29	0.33	0.37	0.37	0.36	0.35	0.38	0.34	0.30	0.29	0.30
120	0.00	0.04	0.00	0.03	0.00	0.03	0.01	0.01	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	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	0.08	0.35	0.80	1.42	2.05	2.60	2.99	3.12
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.49	1.33	2.68	4.40	6.26	7.98	9.40	10.2	10.6
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.65	1.79	3.79	6.52	9.50	12.4	14.7	16.3	17.2	17.6
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.39	1.31	3.23	6.20	9.81	13.4	16.4	18.4	19.4	19.9	20.5
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.60	1.73	3.93	7.24	11.2	14.9	18.0	20.0	21.3	22.7	23.4

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Humidity:65.0%
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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	24.1	24.7	25.1	23.8	20.8	16.7	12.3	8.19	4.81	2.41	1.04	0.45	0.22	0.11	0.00	0.00	0.00	0.00	
-170	25.8	25.8	25.0	22.9	19.6	15.5	11.4	7.56	4.44	2.27	1.05	0.51	0.25	0.13	0.02	0.00	0.00	0.00	
-160	24.5	23.4	21.5	18.8	15.6	12.1	8.75	5.73	3.34	1.72	0.88	0.47	0.26	0.12	0.04	0.00	0.00	0.00	
-150	17.1	16.0	14.4	12.3	10.0	7.65	5.38	3.45	2.03	1.13	0.63	0.38	0.21	0.10	0.04	0.00	0.00	0.00	
-140	8.75	8.15	7.24	6.12	4.85	3.62	2.54	1.67	1.11	0.73	0.46	0.26	0.13	0.07	0.03	0.00	0.00	0.00	
-130	3.11	2.90	2.60	2.19	1.78	1.42	1.10	0.82	0.60	0.44	0.30	0.16	0.08	0.02	0.01	0.00	0.00	0.00	
-120	1.05	0.99	0.95	0.86	0.73	0.63	0.54	0.42	0.29	0.23	0.17	0.09	0.02	0.00	0.00	0.00	0.00	0.00	
-110	0.42	0.39	0.38	0.36	0.31	0.24	0.21	0.18	0.15	0.08	0.05	0.04	0.01	0.00	0.00	0.00	0.00	0.00	
-100	0.12	0.10	0.10	0.10	0.07	0.03	0.04	0.05	0.02	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	0.02	0.00	0.00	
-50	2.02	1.89	1.73	1.57	1.31	1.06	0.77	0.60	0.31	0.29	0.15	0.18	0.02	0.10	0.00	0.06	0.02	0.00	
-40	3.85	3.79	3.81	4.02	4.26	4.34	4.23	3.89	3.21	2.41	1.63	1.03	0.63	0.40	0.11	0.14	0.04	0.00	
-30	112	84.1	54.9	35.7	20.8	11.2	7.16	5.94	5.48	4.75	3.72	2.53	1.58	0.90	0.46	0.25	0.08	0.00	
-20	1908	1405	773	300	124	59.3	30.8	15.0	8.10	6.40	5.31	4.00	2.66	1.55	0.84	0.39	0.11	0.00	
-10	4162	3719	2807	1521	510	177	79.7	37.1	17.8	8.98	6.49	5.10	3.59	2.19	1.19	0.54	0.13	0.00	
0	4575	4240	3484	2216	893	301	131	61.2	28.8	13.5	7.48	5.86	4.28	2.69	1.47	0.68	0.15	0.00	
10	3963	3521	2677	1535	659	291	144	72.6	34.9	17.0	8.67	6.23	4.60	2.97	1.64	0.77	0.18	0.00	
20	1932	1501	937	554	327	195	112	61.6	32.4	16.6	8.70	6.26	4.67	3.04	1.70	0.80	0.20	0.00	
30	416	366	307	234	168	113	71.7	42.2	24.2	13.2	7.64	5.93	4.42	2.92	1.65	0.79	0.20	0.00	
40	172	156	133	109	82.6	58.8	39.0	24.9	15.2	9.14	6.68	5.35	3.94	2.59	1.51	0.73	0.19	0.00	
50	71.3	65.7	56.7	46.0	35.4	26.0	18.1	12.5	8.67	6.76	5.62	4.47	3.28	2.19	1.32	0.64	0.16	0.00	
60	23.0	21.3	18.4	15.4	12.4	9.89	8.00	6.81	5.96	5.21	4.39	3.47	2.55	1.73	1.05	0.52	0.14	0.00	
70	7.25	7.04	6.71	6.34	5.93	5.51	5.10	4.70	4.22	3.65	3.05	2.44	1.83	1.27	0.80	0.38	0.11	0.00	
80	4.45	4.32	4.13	3.91	3.65	3.38	3.12	2.85	2.56	2.25	1.91	1.60	1.23	0.86	0.54	0.23	0.08	0.00	
90	2.19	2.11	2.02	1.93	1.82	1.70	1.61	1.51	1.38	1.25	1.10	0.96	0.72	0.49	0.29	0.09	0.04	0.00	
100	0.97	0.91	0.89	0.86	0.80	0.75	0.72	0.70	0.63	0.56	0.51	0.46	0.31	0.19	0.13	0.00	0.01	0.00	
110	0.25	0.21	0.21	0.21	0.16	0.13	0.15	0.15	0.10	0.09	0.09	0.10	0.08	0.00	0.03	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	0.04	0.02	0.00	0.00	0.00	0.00	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	2.97	2.59	2.04	1.42	0.83	0.37	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150	10.2	9.36	7.93	6.22	4.37	2.67	1.35	0.50	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	17.4	16.4	14.8	12.3	9.43	6.43	3.74	1.79	0.67	0.17	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	
170	20.6	19.9	18.6	16.5	13.4	9.68	6.06	3.16	1.34	0.69	0.30	0.19	0.11	0.07	0.00	0.00	0.00	0.00	
180	24.1	24.7	25.1	23.8	20.8	16.7	12.3	8.19	4.81	2.41	1.04	0.45	0.22	0.11	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:2026-03-26

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: