

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2421.8 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	55.5V x 55.6H
	At 50% of Imax	38.3V x 38.7H
	At 90% of Imax	19.1V x 19.4H

Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	885.7 lumens per klm.
	To 50% of Imax	648.9 lumens per klm.
	To 90% of Imax	201.1 lumens per klm.

Upward LOR	1.4 %
Downward LOR	98.6 %

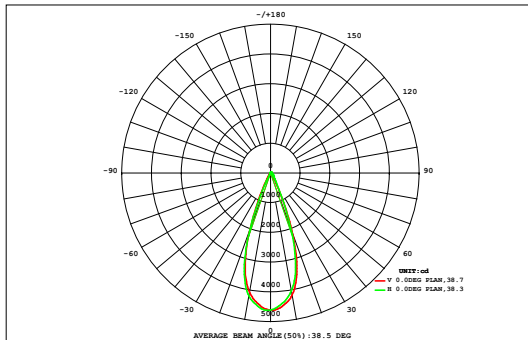
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:12.06V I:2.614A P:24.81W PF:0.7865 Freq:59.98Hz Lamp Flux:1910.76x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:77.02lm/W	
MODEL	D7B1-23W-A	Imax (cd)	4628
NOMINAL POWER (W)	23	AVAILABILITY (%)	88.6
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	1693
NOMINAL FLUX (lm)	1910.76	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1911
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	0.42	0.59	0.75	0.90	1.02	1.07	1.07	1.00	0.87	0.72	0.55	0.39	0.26	0.16	0.09	10.4	0.00
45	0.11	0.18	0.29	0.42	0.59	0.75	0.90	1.02	1.07	1.07	1.00	0.87	0.72	0.55	0.39	0.26	0.16	0.09	10.4	0.00
40	0.14	0.25	0.40	0.60	0.85	1.12	1.36	1.57	1.67	1.66	1.54	1.33	1.07	0.81	0.57	0.37	0.22	0.13	15.7	0.00
35	0.18	0.33	0.55	0.84	1.22	1.66	2.06	2.38	2.56	2.55	2.37	2.03	1.60	1.17	0.79	0.51	0.30	0.16	23.2	0.00
30	0.22	0.41	0.71	1.16	1.73	2.43	3.21	4.02	4.61	4.61	4.02	3.20	2.40	1.68	1.10	0.67	0.38	0.20	36.8	16.3
25	0.26	0.50	0.90	1.54	2.46	3.88	6.26	8.92	10.7	10.7	8.93	6.25	3.89	2.44	1.49	0.85	0.47	0.24	70.7	58.2
20	0.30	0.58	1.09	1.98	3.66	7.31	12.7	17.5	20.1	20.1	17.5	12.7	7.34	3.72	1.97	1.06	0.55	0.27	130	120
15	0.31	0.64	1.27	2.53	5.75	12.4	19.8	25.2	27.7	27.8	25.2	19.9	12.6	5.90	2.59	1.25	0.61	0.28	192	183
10	0.31	0.66	1.37	3.10	8.21	16.9	24.9	29.9	32.0	32.0	29.9	25.1	17.3	8.53	3.23	1.37	0.63	0.28	236	228
5	0.29	0.63	1.37	3.46	9.73	19.3	27.4	31.9	34.1	34.2	32.3	27.8	20.0	10.2	3.59	1.35	0.59	0.26	259	252
0	0.25	0.56	1.24	3.36	9.77	19.5	27.5	32.1	34.5	34.8	32.9	28.5	20.4	10.3	3.41	1.19	0.51	0.22	261	255
-5	0.20	0.46	1.01	2.63	7.95	17.0	25.2	30.4	32.8	33.2	31.3	26.4	17.8	8.22	2.60	0.92	0.39	0.17	239	233
-10	0.15	0.33	0.71	1.68	5.08	12.2	20.2	25.9	28.8	29.1	26.6	21.0	12.7	5.09	1.59	0.62	0.27	0.13	192	186
-15	0.10	0.21	0.44	0.94	2.41	6.35	12.3	17.6	20.6	20.8	18.0	12.6	6.34	2.28	0.85	0.37	0.17	0.08	122	115
-20	0.06	0.12	0.24	0.48	0.97	2.25	4.71	7.71	9.57	9.63	7.77	4.67	2.14	0.88	0.41	0.20	0.10	0.05	52.0	43.2
-25	0.04	0.07	0.12	0.21	0.39	0.67	1.18	1.89	2.43	2.42	1.86	1.13	0.61	0.34	0.18	0.09	0.05	0.04	13.7	2.28
-30	0.03	0.04	0.05	0.08	0.14	0.21	0.30	0.40	0.47	0.46	0.38	0.28	0.18	0.11	0.06	0.04	0.03	0.03	3.31	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	0.87	0.00
-40	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.45	0.00
-45	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.45	0.00
-45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL (DEG) 10 15 20 25 30 35 40 45																				
Φ t	3.03	6.04	11.8	25.1	61.0	124	190	238	264	265	242	194	127	62.3	24.9	11.2	5.48	2.66	1858	---
Φ a	0.00	0.00	0.00	7.77	49.5	115	181	230	256	257	234	185	118	51.1	8.67	0.00	0.00	0.00	---	1693

one-half-peak spread: U:18.3,D:20.1 , L:20.2,R:18.6

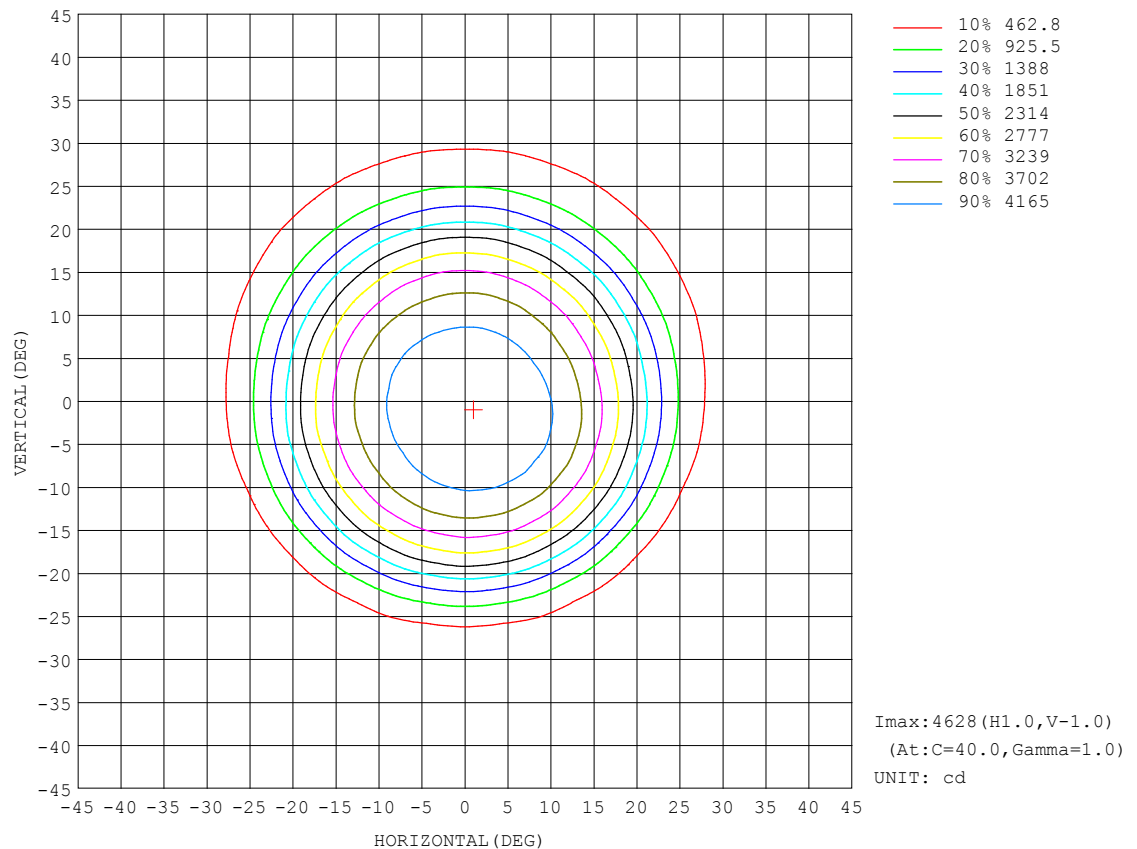
NEMA Beam Type: Type 4

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:12.06V I:2.614A P:24.81W PF:0.7865 Freq:59.98Hz Lamp Flux:1910.76x1 lm		
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SPEC.:23W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

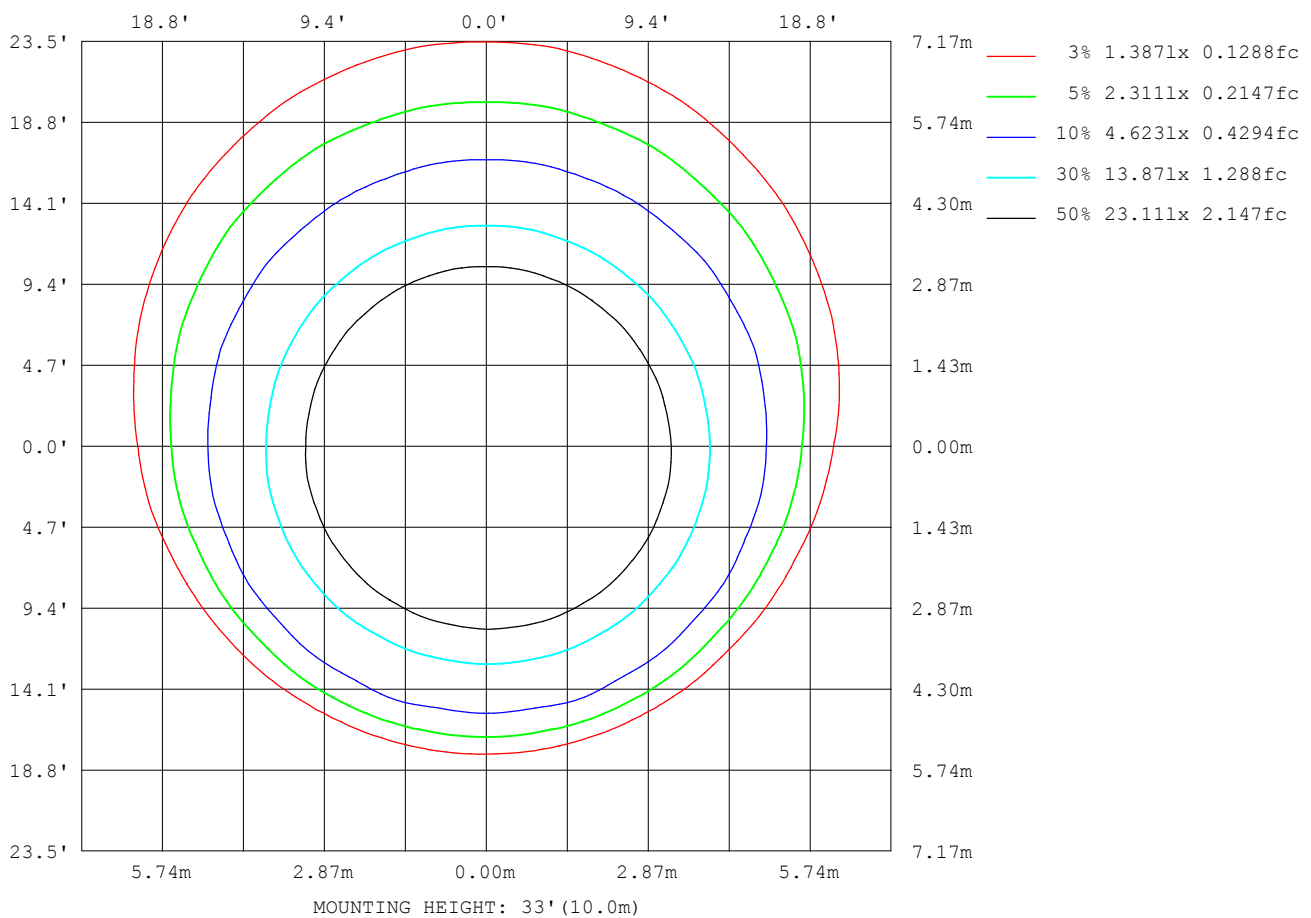


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:

ISOLUX DIAGRAM

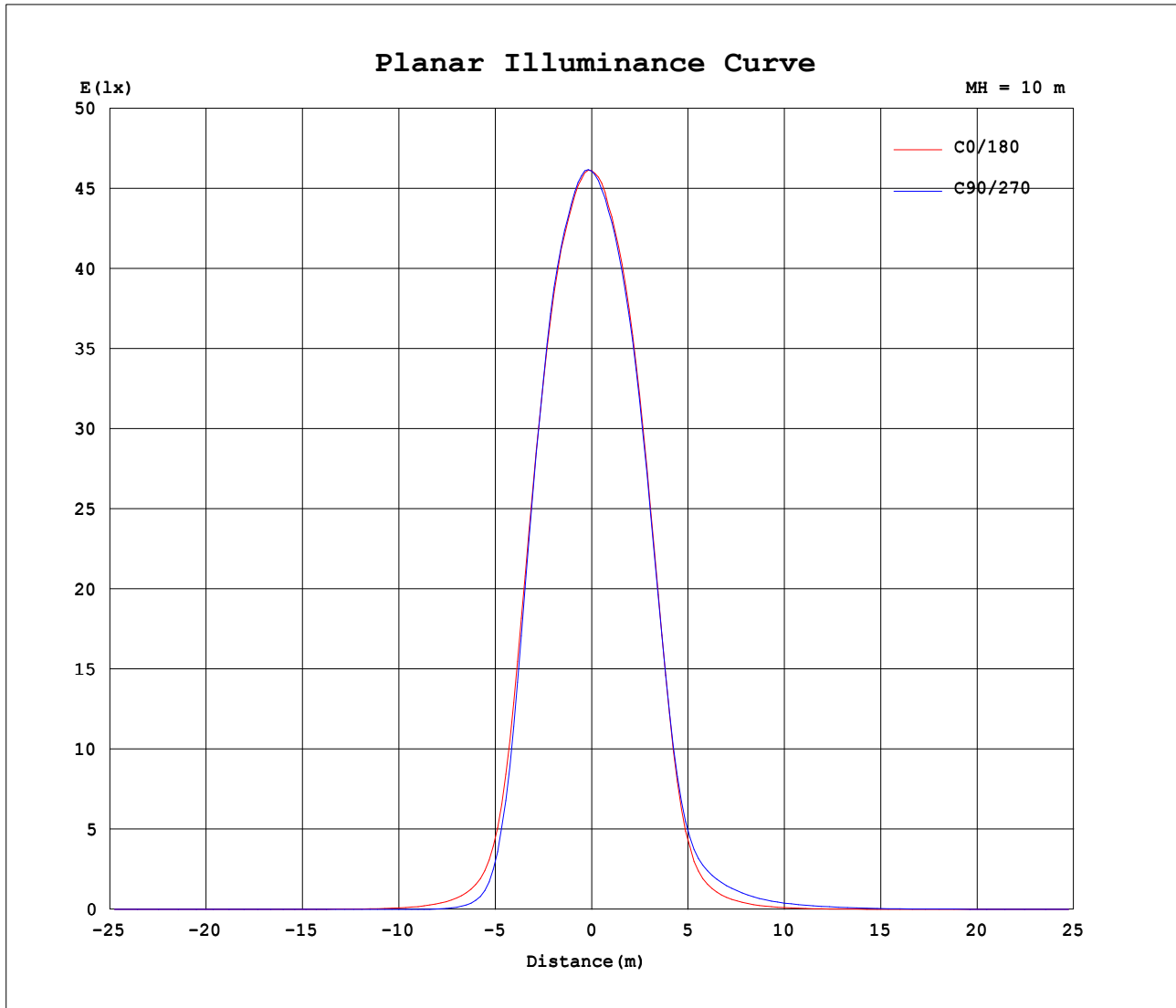
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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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

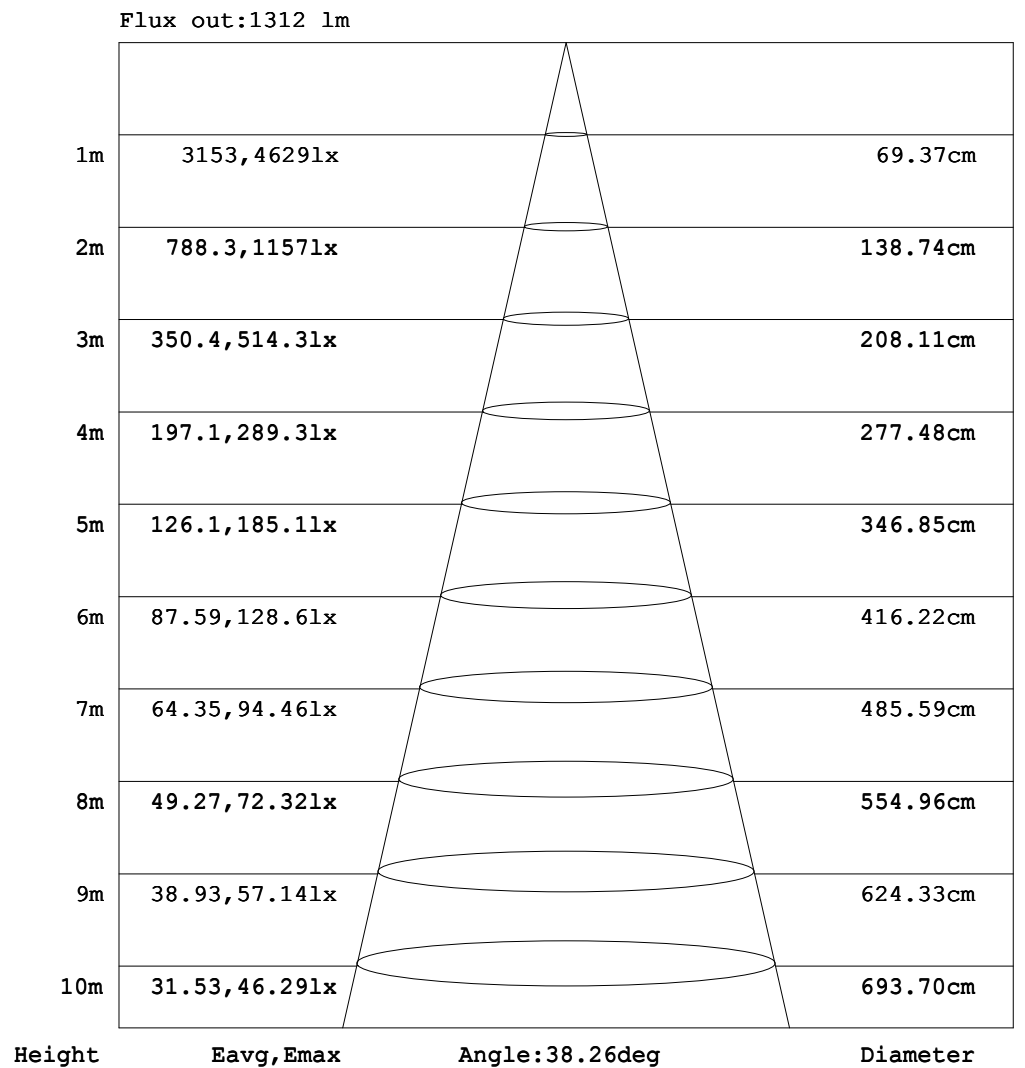


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Test Speed: HIGH
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
Humidity:65.0%
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Remarks:

AAI Figure

Test:U:12.06V I:2.614A P:24.81W PF:0.7865 Freq:59.98Hz Lamp Flux:1910.76x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 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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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:12.06V I:2.614A P:24.81W PF:0.7865 Freq:59.98Hz Lamp Flux:1910.76x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 2700K 40°LENS	DIM.:	SERIAL No.:1
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	0.16	0.60	1.70	3.89	7.14	11.0	14.7	17.7	19.7	21.0	22.4	23.1
-170	0.00	0.00	0.00	0.02	0.05	0.13	0.30	0.79	2.01	4.46	7.65	11.5	15.6	19.6	22.7	24.7	25.3	25.2	25.2
-160	0.00	0.00	0.00	0.02	0.08	0.22	0.44	0.85	1.71	3.34	5.76	8.78	12.1	15.6	18.7	21.3	23.1	24.1	24.5
-150	0.00	0.00	0.00	0.03	0.08	0.18	0.33	0.59	1.09	2.00	3.42	5.34	7.62	9.97	12.3	14.3	15.9	16.9	17.2
-140	0.00	0.00	0.00	0.01	0.06	0.11	0.22	0.40	0.68	1.06	1.62	2.48	3.57	4.78	6.04	7.17	8.07	8.66	8.83
-130	0.00	0.00	0.00	0.00	0.02	0.04	0.14	0.27	0.40	0.57	0.77	1.07	1.37	1.74	2.14	2.55	2.86	3.07	3.17
-120	0.00	0.00	0.00	0.00	0.01	0.02	0.07	0.14	0.18	0.26	0.38	0.50	0.59	0.71	0.82	0.92	0.97	1.04	1.08
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.04	0.11	0.17	0.19	0.20	0.27	0.33	0.35	0.36	0.41	0.45
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.02	0.01	0.05	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	0.00	0.05	0.00	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
-50	0.00	0.01	0.08	0.15	0.26	0.28	0.46	0.46	0.69	0.88	1.18	1.46	1.75	1.93	2.08	2.13	2.12	2.12	2.04
-40	0.00	0.06	0.18	0.43	0.76	1.14	1.64	2.35	3.20	3.98	4.59	4.89	4.94	4.78	4.47	4.21	4.05	3.98	3.85
-30	0.00	0.10	0.36	0.81	1.41	2.25	3.33	4.54	5.58	6.35	6.96	9.25	14.9	25.5	40.1	59.4	88.4	113	125
-20	0.00	0.14	0.55	1.19	2.12	3.40	4.86	6.19	7.50	10.4	19.2	36.3	70.9	136	315	776	1373	1861	2058
-10	0.00	0.17	0.73	1.53	2.74	4.30	5.93	7.55	11.3	22.0	43.5	91.1	190	513	1455	2650	3530	4028	4202
0	0.00	0.19	0.87	1.79	3.21	4.91	6.65	8.74	16.4	33.0	68.6	138	296	840	2066	3320	4076	4442	4611
10	0.00	0.24	0.98	2.00	3.51	5.26	7.02	10.2	19.8	38.2	77.2	147	284	625	1483	2605	3466	3898	4028
20	0.00	0.28	1.03	2.10	3.59	5.31	7.02	10.2	19.0	36.0	67.0	117	199	326	527	933	1489	1911	2062
30	0.00	0.29	1.03	2.07	3.46	5.03	6.64	8.79	15.2	27.0	46.7	77.3	120	175	240	308	364	412	425
40	0.00	0.28	0.99	1.92	3.12	4.53	5.97	7.44	10.5	16.9	27.8	43.3	63.4	86.8	113	137	158	172	176
50	0.00	0.25	0.89	1.69	2.66	3.84	5.05	6.25	7.53	9.76	13.9	20.2	28.4	38.3	49.0	58.9	66.7	71.4	72.8
60	0.00	0.23	0.76	1.41	2.15	3.02	4.00	4.97	5.83	6.64	7.57	8.91	11.1	13.8	16.7	19.5	21.9	23.2	23.6
70	0.00	0.21	0.61	1.10	1.66	2.24	2.91	3.58	4.25	4.81	5.29	5.71	6.11	6.46	6.80	7.04	7.23	7.30	7.31
80	0.00	0.18	0.45	0.79	1.15	1.56	1.99	2.36	2.74	3.07	3.39	3.66	3.91	4.13	4.34	4.44	4.51	4.52	4.52
90	0.00	0.13	0.27	0.50	0.73	0.99	1.25	1.44	1.63	1.78	1.93	2.01	2.09	2.18	2.26	2.25	2.25	2.25	2.26
100	0.00	0.10	0.13	0.26	0.36	0.52	0.67	0.76	0.83	0.91	1.00	1.02	1.03	1.06	1.10	1.06	1.03	1.02	1.01
110	0.00	0.06	0.02	0.10	0.10	0.15	0.25	0.27	0.28	0.33	0.36	0.36	0.36	0.35	0.37	0.34	0.30	0.30	0.31
120	0.00	0.03	0.00	0.02	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	0.02	0.04	0.01
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.35	0.80	1.39	2.03	2.57	2.95	3.06
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.48	1.32	2.65	4.35	6.19	7.88	9.26	10.1	10.4
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.64	1.77	3.75	6.44	9.38	12.2	14.5	16.0	16.9	17.3
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.39	1.29	3.19	6.12	9.69	13.2	16.2	18.1	19.1	19.6	20.2
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.60	1.70	3.89	7.14	11.0	14.7	17.7	19.7	21.0	22.4	23.1

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Test Speed: HIGH
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Operators:ADMIN
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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:

LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight 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	23.8	24.3	24.7	23.4	20.5	16.4	12.1	8.06	4.74	2.37	1.01	0.43	0.21	0.10	0.00	0.00	0.00	0.00	
-170	25.5	25.4	24.7	22.6	19.3	15.3	11.2	7.45	4.38	2.23	1.03	0.50	0.24	0.11	0.02	0.00	0.00	0.00	
-160	24.2	23.1	21.2	18.6	15.4	11.9	8.63	5.66	3.30	1.70	0.86	0.47	0.25	0.11	0.03	0.00	0.00	0.00	
-150	16.9	15.8	14.2	12.2	9.90	7.57	5.31	3.40	2.00	1.10	0.62	0.36	0.20	0.10	0.05	0.00	0.00	0.00	
-140	8.66	8.07	7.16	6.06	4.80	3.58	2.51	1.65	1.10	0.71	0.44	0.25	0.14	0.06	0.03	0.00	0.00	0.00	
-130	3.08	2.87	2.57	2.18	1.77	1.41	1.09	0.80	0.59	0.43	0.29	0.17	0.06	0.04	0.00	0.00	0.00	0.00	
-120	1.05	1.00	0.95	0.85	0.74	0.62	0.53	0.41	0.29	0.21	0.16	0.09	0.02	0.00	0.00	0.00	0.00	0.00	
-110	0.42	0.39	0.37	0.35	0.28	0.24	0.22	0.18	0.12	0.06	0.05	0.03	0.01	0.00	0.00	0.00	0.00	0.00	
-100	0.11	0.09	0.09	0.09	0.05	0.02	0.03	0.04	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	2.00	1.88	1.72	1.57	1.31	1.07	0.79	0.60	0.33	0.29	0.15	0.19	0.02	0.10	0.00	0.06	0.01	0.00	
-40	3.81	3.75	3.77	3.99	4.21	4.32	4.21	3.85	3.19	2.40	1.62	1.03	0.64	0.40	0.11	0.14	0.04	0.00	
-30	110	83.2	54.4	35.4	20.7	11.1	7.13	5.88	5.42	4.70	3.69	2.53	1.58	0.89	0.46	0.25	0.07	0.00	
-20	1890	1393	769	297	123	59.0	30.5	14.9	8.06	6.33	5.24	3.97	2.65	1.55	0.83	0.39	0.11	0.00	
-10	4107	3665	2776	1508	506	176	79.1	36.9	17.7	8.91	6.42	5.04	3.57	2.17	1.18	0.53	0.13	0.00	
0	4508	4171	3431	2190	881	297	130	60.9	28.7	13.5	7.41	5.79	4.24	2.68	1.46	0.66	0.15	0.00	
10	3910	3466	2641	1518	651	288	142	71.7	34.5	16.9	8.58	6.15	4.55	2.94	1.63	0.75	0.18	0.00	
20	1916	1487	932	534	323	192	111	61.1	32.1	16.5	8.63	6.18	4.62	3.02	1.69	0.79	0.20	0.00	
30	413	362	303	232	166	112	71.2	41.9	24.0	13.1	7.58	5.86	4.38	2.90	1.66	0.79	0.20	0.00	
40	170	154	132	108	81.9	58.3	38.8	24.8	15.1	9.08	6.61	5.27	3.91	2.58	1.51	0.74	0.18	0.00	
50	70.8	65.2	56.3	45.7	35.1	25.7	18.0	12.4	8.61	6.69	5.57	4.43	3.26	2.18	1.31	0.64	0.16	0.00	
60	22.8	21.2	18.3	15.3	12.3	9.83	7.93	6.75	5.91	5.14	4.35	3.43	2.52	1.72	1.05	0.52	0.14	0.00	
70	7.17	6.97	6.64	6.29	5.88	5.47	5.05	4.65	4.19	3.63	3.02	2.42	1.81	1.26	0.79	0.38	0.11	0.00	
80	4.41	4.28	4.09	3.88	3.62	3.35	3.08	2.82	2.52	2.22	1.90	1.59	1.22	0.85	0.53	0.22	0.08	0.00	
90	2.18	2.09	2.01	1.93	1.81	1.68	1.59	1.50	1.36	1.22	1.10	0.97	0.73	0.49	0.29	0.09	0.04	0.00	
100	0.95	0.90	0.88	0.86	0.80	0.74	0.71	0.69	0.62	0.56	0.51	0.45	0.32	0.19	0.13	0.01	0.01	0.00	
110	0.25	0.21	0.21	0.20	0.16	0.13	0.14	0.15	0.10	0.11	0.09	0.09	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	0.03	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	0.00	0.00	
140	2.93	2.55	2.00	1.39	0.82	0.36	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150	10.1	9.22	7.82	6.13	4.30	2.63	1.33	0.49	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	17.1	16.2	14.5	12.2	9.28	6.33	3.68	1.76	0.66	0.16	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	
170	20.3	19.6	18.4	16.2	13.2	9.53	5.98	3.11	1.32	0.68	0.30	0.18	0.10	0.06	0.00	0.00	0.00	0.00	
180	23.8	24.3	24.7	23.4	20.5	16.4	12.1	8.06	4.74	2.37	1.01	0.43	0.21	0.10	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: