

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	5883.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	38.4V x 39.0H
	At 50% of I _{max}	20.3V x 20.4H
	At 90% of I _{max}	8.0V x 8.1H

Beam Flux	Total	1000.9 lumens per klm.
	To 10% of I _{max}	778.7 lumens per klm.
	To 50% of I _{max}	431.3 lumens per klm.
	To 90% of I _{max}	84.0 lumens per klm.

Upward LOR	1.4 %
Downward LOR	98.7 %

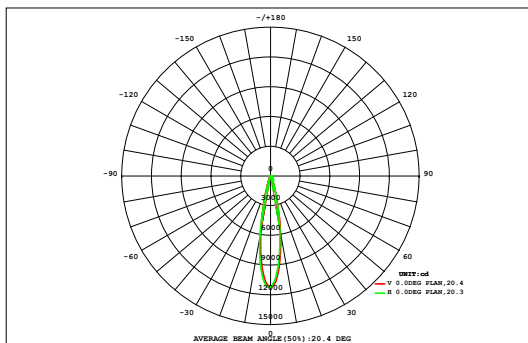
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:12.12V I:2.557A P:24.25W PF:0.7827 Freq:59.97Hz Lamp Flux:1913x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 4110K 20°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:78.88lm/W	
MODEL	D7B1-23W-A	Imax (cd)	11255
NOMINAL POWER (W)	23	AVAILABILITY (%)	77.7
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	1487
NOMINAL FLUX (lm)	1913	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1913
TEST VOLTAGE (V)	12	θ @50% (H,V)	20,20DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.53	0.68	0.84	1.02	1.22	1.40	1.57	1.71	1.78	1.78	1.72	1.60	1.43	1.25	1.05	0.87	0.70	0.54	21.7	0.00
27	0.63	0.81	1.03	1.29	1.58	1.87	2.13	2.35	2.47	2.48	2.37	2.16	1.90	1.62	1.33	1.07	0.84	0.65	28.6	0.00
24	0.73	0.97	1.27	1.64	2.06	2.53	2.98	3.37	3.60	3.61	3.41	3.03	2.59	2.11	1.69	1.32	1.01	0.76	38.7	15.3
21	0.83	1.14	1.56	2.08	2.72	3.51	4.34	5.09	5.57	5.59	5.15	4.43	3.60	2.80	2.15	1.63	1.20	0.87	54.3	38.1
18	0.94	1.32	1.87	2.63	3.66	5.00	6.56	7.95	8.87	8.91	8.05	6.68	5.11	3.77	2.73	1.96	1.40	0.99	78.4	65.3
15	1.04	1.50	2.21	3.27	4.91	7.14	9.74	12.2	13.7	13.7	12.3	9.87	7.28	5.06	3.42	2.34	1.61	1.11	112	102
12	1.11	1.65	2.55	4.00	6.34	9.68	13.7	17.3	19.5	19.6	17.4	13.8	9.89	6.56	4.21	2.72	1.78	1.19	153	144
9	1.14	1.72	2.77	4.61	7.73	12.2	17.5	22.4	25.3	25.2	22.4	17.7	12.5	8.01	4.88	2.99	1.87	1.22	192	183
6	1.13	1.74	2.85	4.95	8.57	13.9	20.2	25.8	29.2	29.1	25.8	20.4	14.2	8.95	5.26	3.10	1.89	1.22	218	210
3	1.08	1.68	2.76	4.90	8.69	14.3	20.9	26.6	30.0	30.0	26.7	21.1	14.7	9.04	5.19	2.98	1.81	1.16	224	215
0	0.98	1.53	2.46	4.31	7.70	12.9	19.1	24.5	27.5	27.5	24.4	19.2	13.1	7.93	4.52	2.61	1.63	1.04	203	194
-3	0.82	1.28	2.01	3.36	5.97	10.1	15.2	19.7	22.3	22.3	19.7	15.2	10.1	6.13	3.52	2.15	1.37	0.86	162	152
-6	0.64	1.01	1.57	2.45	4.01	6.67	10.1	13.4	15.4	15.3	13.4	10.1	6.72	4.13	2.59	1.68	1.07	0.67	111	99.5
-9	0.48	0.75	1.14	1.69	2.55	3.88	5.65	7.48	8.63	8.62	7.49	5.67	3.95	2.67	1.80	1.20	0.78	0.49	64.9	52.2
-12	0.33	0.51	0.76	1.11	1.60	2.20	2.95	3.69	4.19	4.20	3.73	3.02	2.29	1.71	1.17	0.79	0.52	0.34	35.1	17.0
-15	0.22	0.33	0.49	0.69	0.95	1.24	1.59	1.86	2.07	2.08	1.90	1.64	1.29	0.98	0.71	0.50	0.33	0.22	19.1	0.00
-18	0.14	0.21	0.29	0.41	0.54	0.69	0.84	0.96	1.04	1.05	0.97	0.86	0.70	0.55	0.41	0.29	0.20	0.14	10.3	0.00
-21	0.10	0.13	0.17	0.23	0.30	0.37	0.44	0.49	0.53	0.53	0.50	0.45	0.38	0.30	0.23	0.16	0.12	0.09	5.51	0.00
-24	-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL (DEG)	6	9	12	15	18	21	24	27			
Φ t	12.9	19.0	28.6	44.6	71.1	110	155	197	222	222	197	157	112	73.6	46.9	30.4	20.1	13.5	1732	---
Φ a	0.00	0.00	4.32	28.9	57.7	98.7	146	188	214	214	188	147	101	61.7	31.1	7.65	0.00	0.00	---	1487

one-half-peak spread: U:9.7,D:10.7 , L:10.2,R:10.4

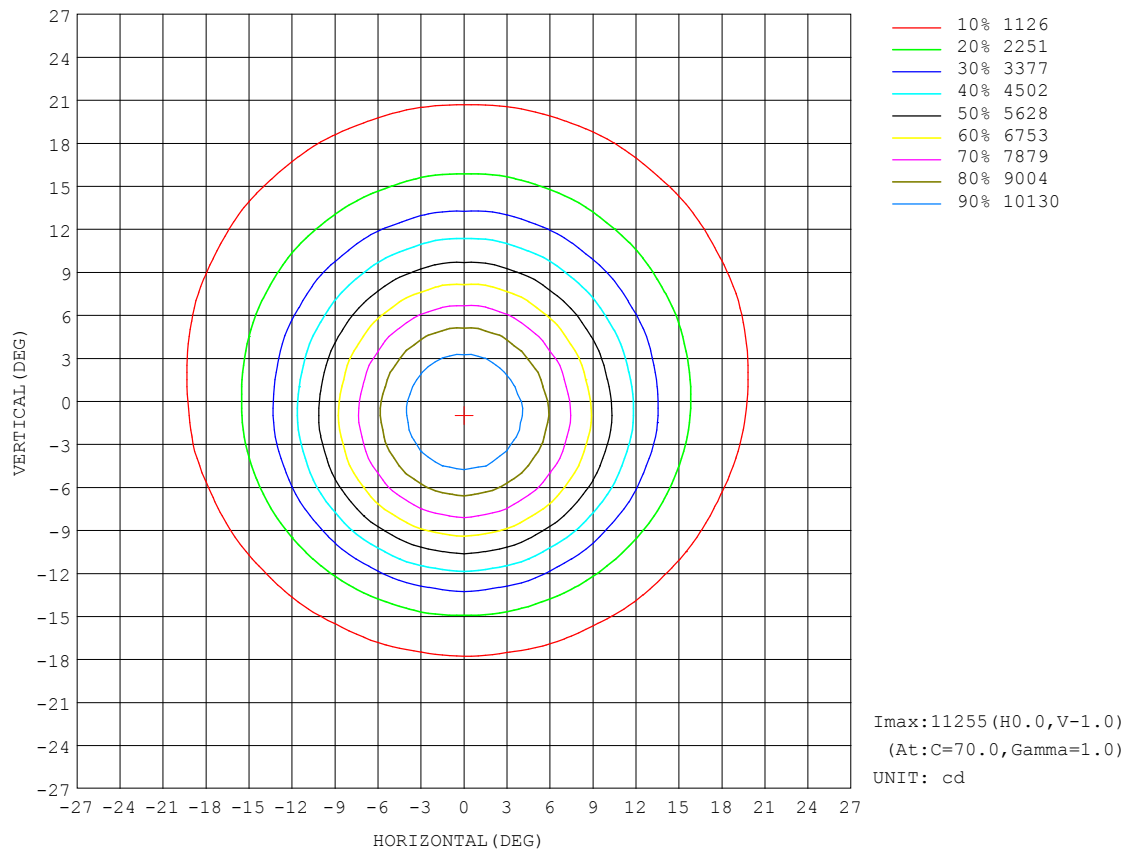
NEMA Beam Type: Type 3

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:12.12V I:2.557A P:24.25W PF:0.7827 Freq:59.97Hz Lamp Flux:1913x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 4110K 20°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

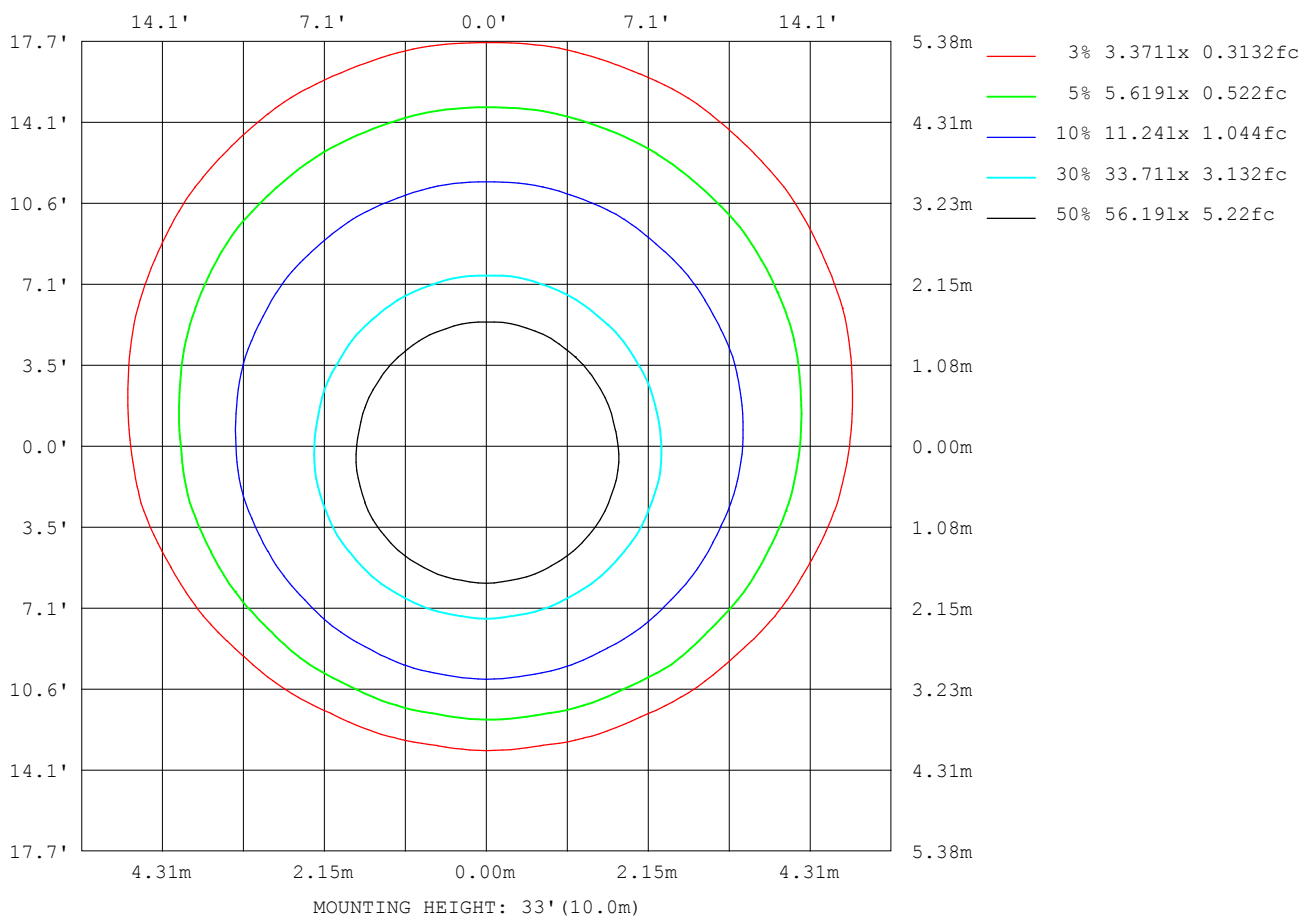


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Operators:ADMIN
Test Date:2026-03-26

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ISOLUX DIAGRAM

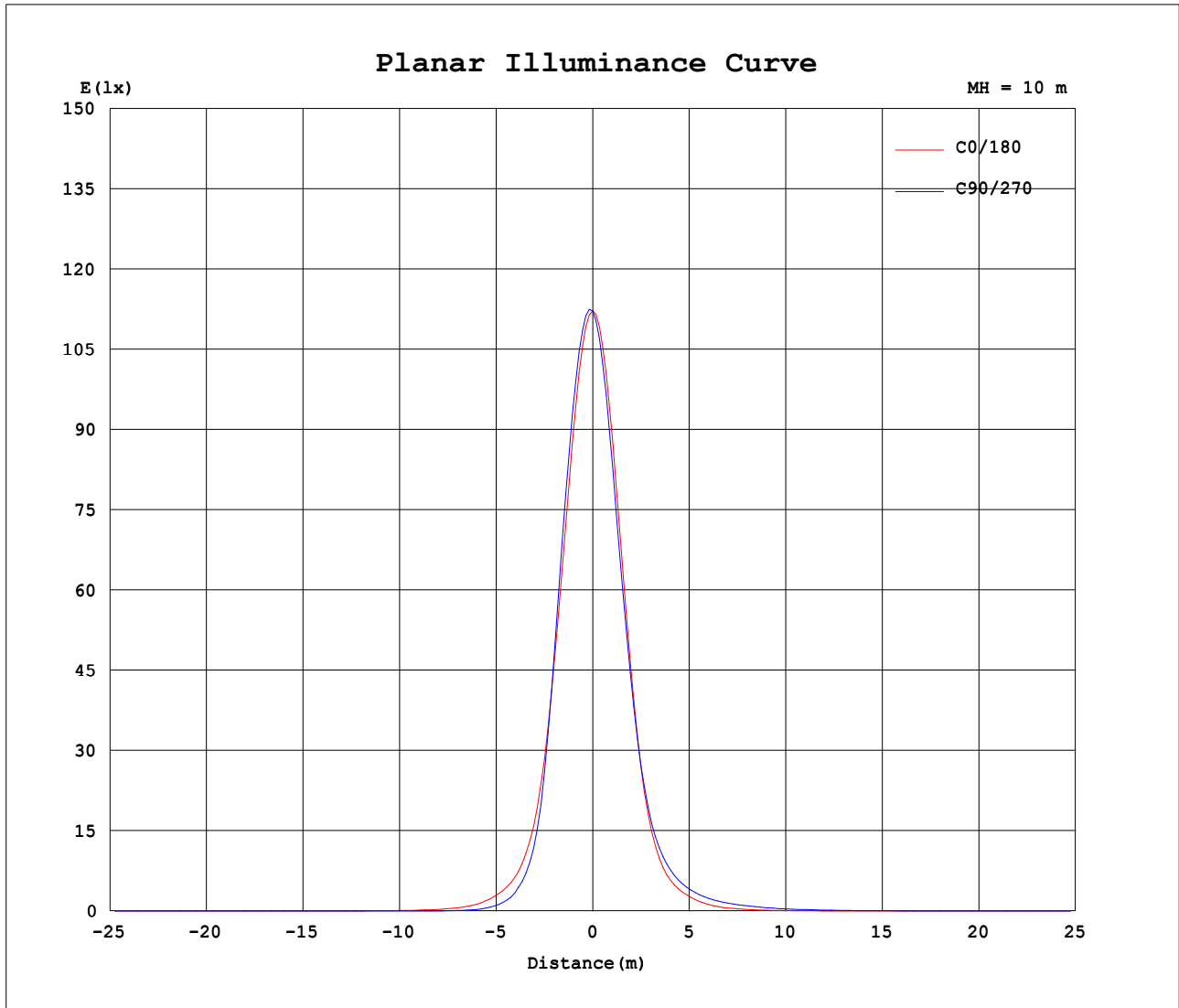
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Operators:ADMIN
Test Date:2026-03-26

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

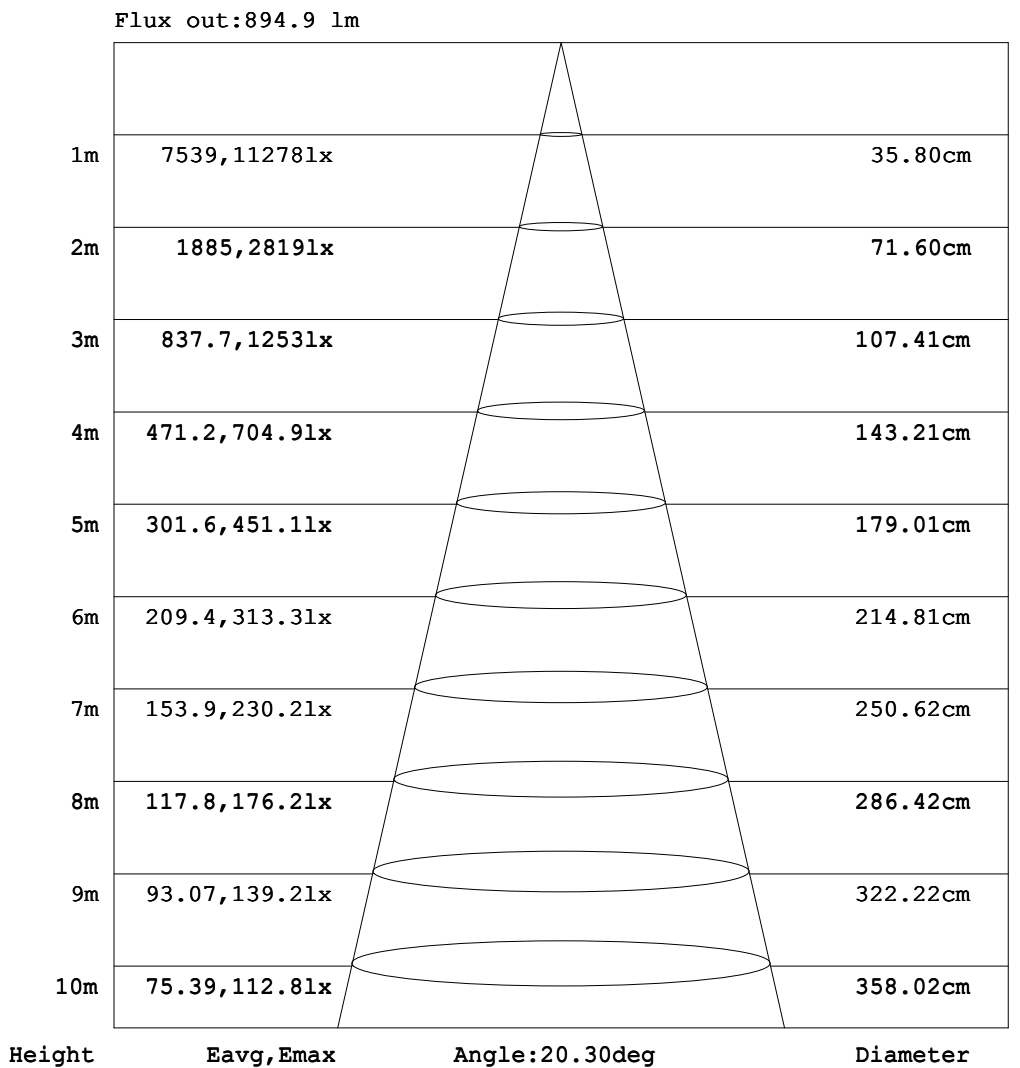


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H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:

AAI Figure

Test:U:12.12V I:2.557A P:24.25W PF:0.7827 Freq:59.97Hz Lamp Flux:1913x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 4110K 20°LENS	DIM.:	SERIAL No.:1
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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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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:12.12V I:2.557A P:24.25W PF:0.7827 Freq:59.97Hz Lamp Flux:1913x1 lm		
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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

Table--1

UNIT: ×10cd

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	0.02	0.05	0.12	0.25	0.52	0.98	1.57	2.08	2.28	2.12	1.89	1.84
-170	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.07	0.15	0.31	0.60	1.08	1.67	2.24	2.63	2.79	2.75	2.63	2.58
-160	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.08	0.14	0.24	0.43	0.74	1.18	1.68	2.14	2.48	2.69	2.80	2.83
-150	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.10	0.17	0.26	0.41	0.63	0.90	1.21	1.50	1.73	1.88	1.92
-140	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.05	0.07	0.11	0.15	0.21	0.29	0.38	0.49	0.59	0.69	0.75	0.77
-130	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.20	0.23	0.25	0.26	0.27
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02
-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	0.01	0.01	0.03	0.02	0.04	0.04	0.06	0.07	0.11	0.13	0.16	0.19	0.22	0.23	0.24	0.25	0.25
-40	0.00	0.00	0.02	0.04	0.08	0.12	0.17	0.25	0.34	0.43	0.50	0.54	0.55	0.53	0.50	0.47	0.44	0.43	0.42
-30	0.00	0.01	0.04	0.09	0.15	0.25	0.37	0.50	0.62	0.71	0.77	0.97	1.41	2.16	3.01	3.85	4.99	5.97	6.51
-20	0.00	0.01	0.06	0.13	0.23	0.38	0.55	0.71	0.85	1.13	1.89	3.21	4.96	8.81	16.2	27.9	42.8	59.3	67.0
-10	0.00	0.01	0.08	0.17	0.30	0.48	0.67	0.86	1.24	2.25	3.92	6.89	13.6	29.1	59.0	123	286	511	622
0	0.00	0.02	0.09	0.20	0.36	0.55	0.75	1.00	1.70	3.23	5.58	10.8	22.8	47.5	97.9	247	570	952	1122
10	0.00	0.02	0.11	0.22	0.39	0.59	0.80	1.12	2.06	3.74	6.62	12.5	24.4	45.1	82.0	156	294	462	539
20	0.00	0.03	0.11	0.24	0.40	0.60	0.80	1.13	2.03	3.62	6.11	10.7	18.3	30.0	45.4	66.4	91.0	113	122
30	0.00	0.03	0.11	0.23	0.39	0.57	0.76	1.00	1.65	2.89	4.59	7.45	11.6	17.1	23.5	30.0	35.4	40.4	41.5
40	0.00	0.03	0.11	0.22	0.35	0.52	0.68	0.86	1.19	1.91	3.04	4.44	6.43	8.88	11.6	14.2	16.4	17.9	18.4
50	0.00	0.03	0.10	0.19	0.30	0.44	0.58	0.73	0.87	1.12	1.63	2.34	3.20	4.12	5.14	6.18	7.07	7.62	7.81
60	0.00	0.03	0.08	0.16	0.25	0.35	0.47	0.58	0.69	0.79	0.88	1.04	1.31	1.64	2.00	2.33	2.61	2.77	2.82
70	0.00	0.02	0.07	0.12	0.19	0.26	0.34	0.42	0.51	0.58	0.64	0.70	0.74	0.79	0.82	0.86	0.88	0.90	0.92
80	0.00	0.02	0.05	0.09	0.14	0.18	0.24	0.28	0.33	0.37	0.42	0.45	0.48	0.51	0.54	0.55	0.57	0.57	0.57
90	0.00	0.01	0.03	0.06	0.09	0.12	0.15	0.17	0.20	0.22	0.24	0.25	0.27	0.28	0.29	0.29	0.29	0.29	0.30
100	0.00	0.01	0.01	0.03	0.04	0.06	0.08	0.09	0.10	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14
110	0.00	0.01	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05
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	0.03	0.05	0.07	0.10	0.11	0.12
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.12	0.22	0.37	0.54	0.71	0.82	0.87
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.10	0.21	0.42	0.74	1.14	1.53	1.80	1.97	2.03
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.19	0.41	0.79	1.32	1.83	2.14	2.16	2.05	2.02
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.12	0.25	0.52	0.98	1.57	2.08	2.28	2.12	1.89	1.84

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

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MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

Table--2

UNIT: ×10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	2.11	2.45	2.71	2.67	2.35	1.79	1.17	0.64	0.31	0.15	0.08	0.04	0.02	0.01	0.00	0.00	0.00	0.00	
-170	2.65	2.76	2.79	2.60	2.20	1.64	1.04	0.58	0.30	0.16	0.09	0.05	0.03	0.01	0.00	0.00	0.00	0.00	
-160	2.80	2.68	2.46	2.11	1.65	1.15	0.72	0.41	0.23	0.13	0.08	0.04	0.03	0.01	0.00	0.00	0.00	0.00	
-150	1.88	1.72	1.49	1.19	0.89	0.61	0.40	0.25	0.16	0.10	0.06	0.04	0.02	0.01	0.00	0.00	0.00	0.00	
-140	0.75	0.68	0.59	0.48	0.37	0.28	0.20	0.14	0.10	0.07	0.05	0.02	0.01	0.01	0.00	0.00	0.00	0.00	
-130	0.26	0.25	0.23	0.20	0.16	0.14	0.11	0.08	0.06	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	
-120	0.11	0.10	0.10	0.09	0.08	0.07	0.06	0.04	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-110	0.05	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-100	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	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	0.01	0.00	
-50	0.25	0.24	0.22	0.21	0.18	0.15	0.12	0.10	0.07	0.06	0.03	0.04	0.01	0.02	0.01	0.01	0.01	0.00	
-40	0.43	0.44	0.47	0.50	0.53	0.55	0.54	0.50	0.42	0.33	0.23	0.16	0.11	0.07	0.03	0.02	0.01	0.00	
-30	5.87	4.84	3.71	2.90	2.07	1.35	0.95	0.77	0.70	0.61	0.49	0.35	0.23	0.14	0.08	0.04	0.02	0.00	
-20	60.8	44.5	28.7	16.4	8.68	4.76	3.12	1.83	1.09	0.83	0.68	0.53	0.36	0.22	0.13	0.06	0.03	0.00	
-10	511	287	129	63.0	30.3	13.8	6.78	3.83	2.18	1.20	0.84	0.66	0.48	0.30	0.17	0.09	0.03	0.00	
0	956	584	264	108	51.5	24.4	11.3	5.77	3.30	1.75	1.00	0.75	0.56	0.37	0.21	0.10	0.03	0.00	
10	466	300	162	87.1	48.2	25.7	13.0	6.84	3.82	2.09	1.13	0.79	0.59	0.40	0.23	0.12	0.04	0.00	
20	115	93.2	68.4	47.2	31.2	18.9	10.9	6.29	3.69	2.06	1.13	0.79	0.59	0.40	0.24	0.12	0.04	0.00	
30	40.6	36.0	30.5	23.9	17.3	11.8	7.57	4.65	2.92	1.68	0.98	0.75	0.57	0.38	0.23	0.12	0.04	0.00	
40	17.9	16.4	14.2	11.7	8.90	6.45	4.45	3.06	1.92	1.18	0.85	0.68	0.51	0.35	0.21	0.11	0.04	0.00	
50	7.62	7.09	6.21	5.16	4.09	3.18	2.34	1.62	1.11	0.86	0.72	0.58	0.44	0.30	0.18	0.10	0.03	0.00	
60	2.76	2.59	2.30	1.97	1.64	1.30	1.01	0.87	0.77	0.68	0.57	0.46	0.34	0.24	0.15	0.08	0.03	0.00	
70	0.91	0.88	0.84	0.80	0.76	0.71	0.66	0.61	0.56	0.49	0.41	0.33	0.26	0.18	0.12	0.06	0.02	0.00	
80	0.56	0.55	0.53	0.51	0.48	0.45	0.42	0.39	0.35	0.31	0.27	0.23	0.18	0.13	0.09	0.05	0.02	0.00	
90	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.20	0.18	0.16	0.14	0.11	0.08	0.05	0.03	0.01	0.00	
100	0.13	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.09	0.08	0.07	0.06	0.04	0.03	0.01	0.01	0.00	
110	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	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	0.11	0.09	0.07	0.05	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	
150	0.82	0.71	0.54	0.37	0.22	0.12	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	1.98	1.81	1.53	1.14	0.73	0.40	0.20	0.09	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	2.12	2.21	2.16	1.84	1.31	0.78	0.39	0.18	0.08	0.04	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	
180	2.11	2.45	2.71	2.67	2.35	1.79	1.17	0.64	0.31	0.15	0.08	0.04	0.02	0.01	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: