

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	5711.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	38.9V x 39.6H
	At 50% of Imax	20.7V x 20.8H
	At 90% of Imax	8.2V x 8.2H

Beam Flux	Total	1000.9 lumens per klm.
	To 10% of Imax	781.5 lumens per klm.
	To 50% of Imax	431.1 lumens per klm.
	To 90% of Imax	83.7 lumens per klm.

Upward LOR	1.4 %
Downward LOR	98.7 %

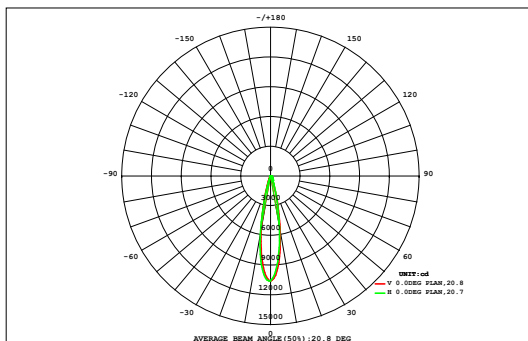
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-26

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:12.09V I:2.607A P:24.74W PF:0.7847 Freq:59.98Hz Lamp Flux:1855.62x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 3000K 20°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:75.02lm/W	
MODEL	D7B1-23W-A	Imax (cd)	10598
NOMINAL POWER (W)	23	AVAILABILITY (%)	78.2
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	1451
NOMINAL FLUX (lm)	1855.62	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1856
TEST VOLTAGE (V)	12	θ @50% (H,V)	21,21DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.51	0.66	0.81	0.99	1.18	1.36	1.53	1.67	1.73	1.74	1.69	1.56	1.41	1.23	1.03	0.85	0.69	0.54	21.2	0.00
27	0.61	0.79	1.00	1.25	1.54	1.81	2.07	2.30	2.42	2.43	2.33	2.12	1.87	1.60	1.31	1.05	0.84	0.64	28.0	0.00
24	0.70	0.94	1.23	1.59	2.01	2.47	2.92	3.31	3.54	3.56	3.37	3.00	2.56	2.09	1.68	1.31	1.00	0.75	38.0	17.4
21	0.81	1.11	1.52	2.03	2.66	3.44	4.26	5.00	5.48	5.52	5.11	4.40	3.58	2.79	2.14	1.62	1.19	0.86	53.5	38.5
18	0.92	1.28	1.82	2.57	3.59	4.90	6.43	7.82	8.70	8.75	7.94	6.62	5.09	3.76	2.72	1.95	1.39	0.98	77.3	65.3
15	1.02	1.47	2.17	3.22	4.82	7.00	9.53	11.9	13.3	13.3	12.0	9.72	7.23	5.05	3.41	2.33	1.60	1.10	110	101
12	1.09	1.62	2.51	3.94	6.25	9.51	13.3	16.7	18.8	18.8	16.8	13.4	9.73	6.53	4.19	2.72	1.77	1.18	149	140
9	1.12	1.70	2.73	4.55	7.60	11.9	16.9	21.4	24.0	24.0	21.4	17.0	12.2	7.94	4.85	2.98	1.86	1.21	185	177
6	1.11	1.72	2.82	4.89	8.41	13.5	19.4	24.6	27.5	27.4	24.5	19.5	13.8	8.81	5.23	3.10	1.88	1.20	209	202
3	1.07	1.66	2.74	4.86	8.54	13.9	20.0	25.2	28.2	28.3	25.4	20.2	14.3	8.90	5.16	2.97	1.79	1.14	214	207
0	0.97	1.52	2.45	4.29	7.58	12.6	18.4	23.3	26.0	26.0	23.3	18.5	12.8	7.81	4.48	2.59	1.61	1.02	195	187
-3	0.81	1.28	2.01	3.35	5.92	9.87	14.7	18.9	21.3	21.4	18.9	14.7	9.95	6.04	3.48	2.10	1.33	0.84	157	148
-6	0.63	1.01	1.57	2.46	4.00	6.60	9.88	13.0	14.9	14.9	13.0	9.87	6.62	4.06	2.53	1.63	1.04	0.65	108	98.5
-9	0.47	0.74	1.13	1.69	2.55	3.87	5.59	7.36	8.44	8.42	7.34	5.58	3.87	2.60	1.74	1.17	0.76	0.48	63.8	51.9
-12	0.33	0.51	0.75	1.11	1.59	2.19	2.93	3.65	4.11	4.10	3.64	2.94	2.22	1.63	1.13	0.77	0.51	0.33	34.4	18.3
-15	0.22	0.32	0.48	0.68	0.94	1.22	1.56	1.82	2.02	2.03	1.84	1.58	1.25	0.95	0.69	0.48	0.32	0.21	18.6	0.00
-18	0.14	0.20	0.29	0.40	0.53	0.68	0.82	0.93	1.01	1.01	0.94	0.83	0.68	0.53	0.40	0.29	0.20	0.14	10.0	0.00
-21	0.09	0.12	0.17	0.22	0.29	0.36	0.43	0.48	0.51	0.51	0.48	0.43	0.36	0.29	0.22	0.16	0.12	0.09	5.34	0.00
-24																				
-27																				
	-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL (DEG)	6	9	12	15	18	21	24	27			
Φ t	12.6	18.6	28.2	44.1	70.0	107	151	189	212	212	190	152	109	72.6	46.4	30.1	19.9	13.4	1679	---
Φ a	0.00	0.00	6.13	29.6	58.7	97.1	142	181	204	204	182	143	99.5	61.0	32.5	9.20	0.00	0.00	---	1451

one-half-peak spread: U:9.9,D:11.0 , L:10.4,R:10.6

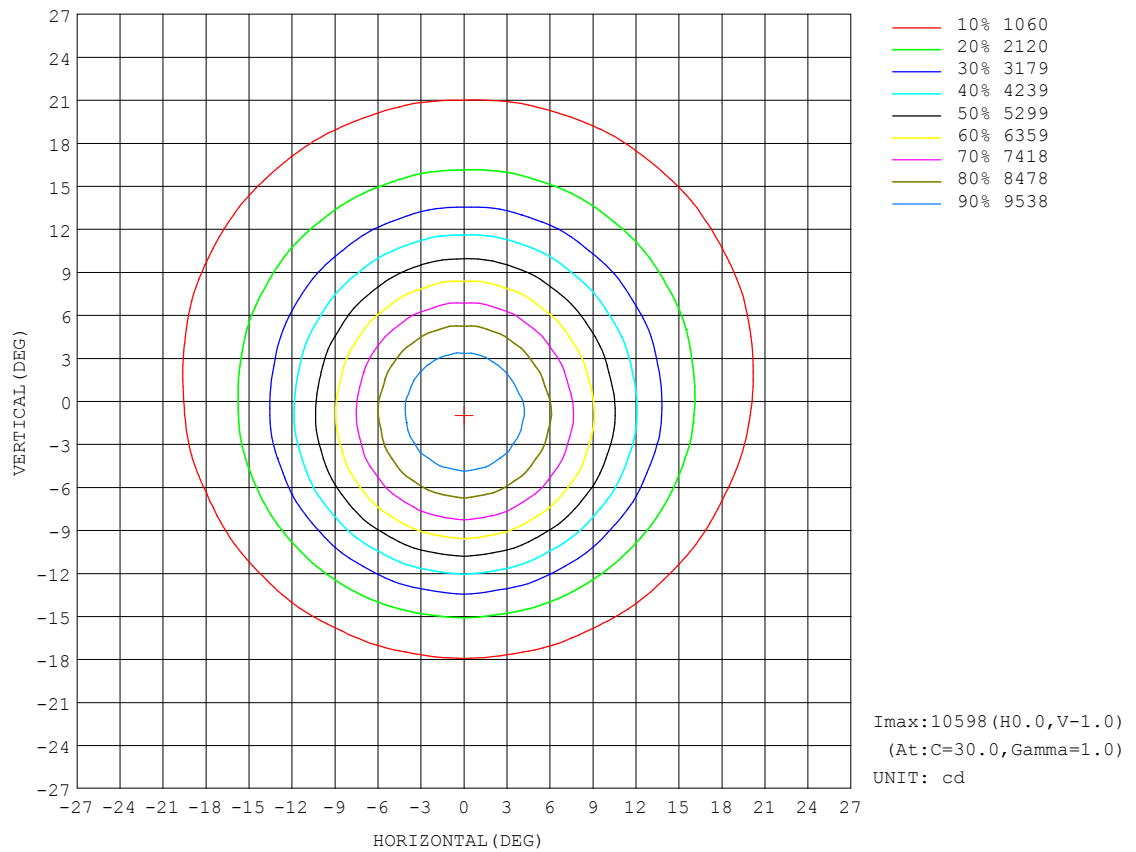
NEMA Beam Type: Type 3

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:12.09V I:2.607A P:24.74W PF:0.7847 Freq:59.98Hz Lamp Flux:1855.62x1 lm		
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SPEC.:23W 3000K 20°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

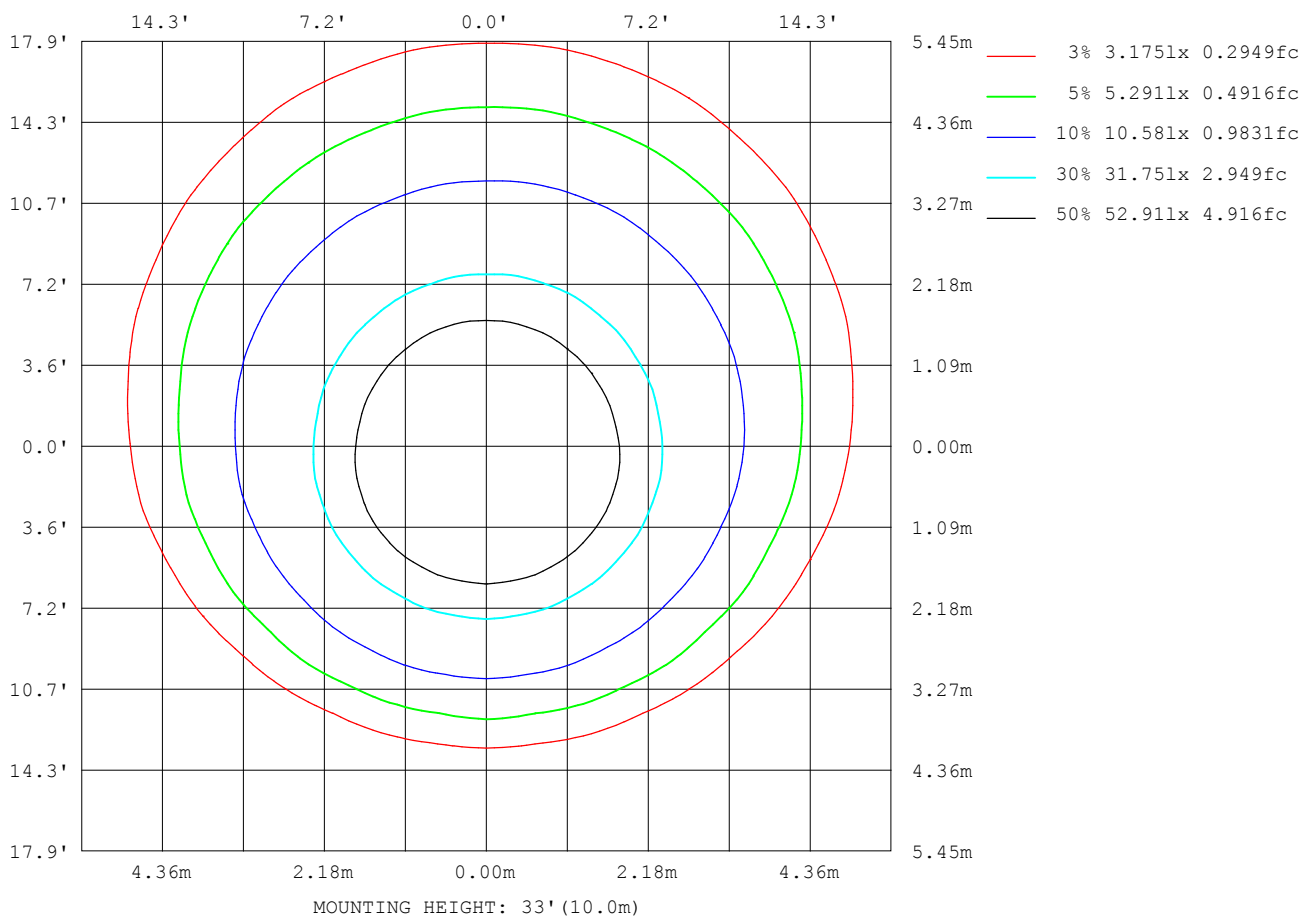


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ISOLUX DIAGRAM

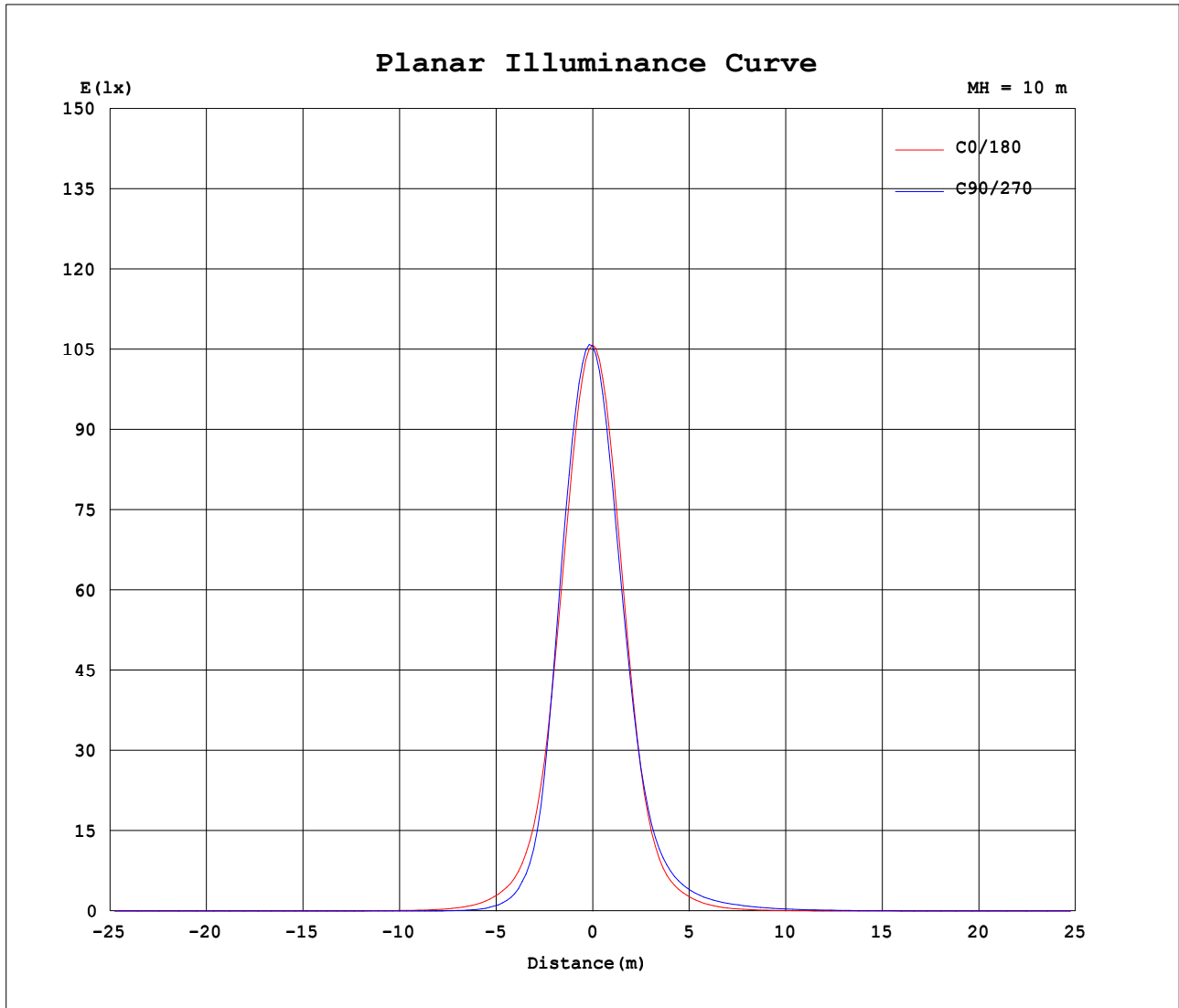
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Remarks:

Planar Illuminance Curve

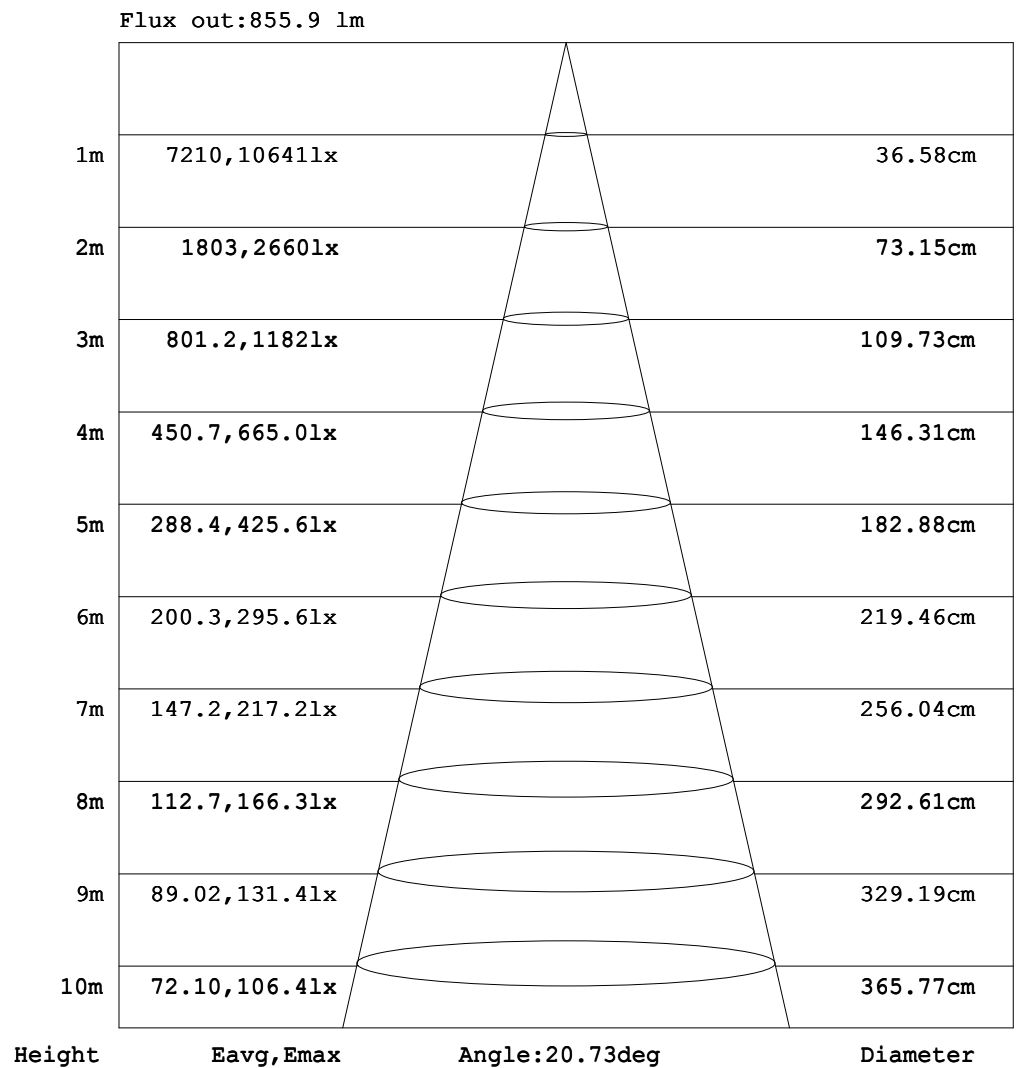


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Remarks:

AAI Figure

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SPEC.:23W 3000K 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.

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

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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	0.51	0.96	1.52	2.00	2.20	2.06	1.84	1.79
-170	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.07	0.14	0.31	0.59	1.05	1.62	2.16	2.54	2.69	2.66	2.54	2.49
-160	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.08	0.13	0.24	0.42	0.73	1.15	1.63	2.06	2.39	2.60	2.70	2.74
-150	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.06	0.10	0.16	0.26	0.40	0.62	0.88	1.18	1.46	1.67	1.82	1.86
-140	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.04	0.07	0.10	0.15	0.20	0.28	0.37	0.48	0.58	0.67	0.74	0.75
-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	0.13	0.16	0.19	0.22	0.24	0.26	0.26
-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	0.06	0.07	0.09	0.10	0.10	0.11	0.11
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05
-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	0.01	0.01	0.01	0.01	0.01	0.01
-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	0.10	0.13	0.16	0.18	0.21	0.23	0.24	0.24	0.24
-40	0.00	0.00	0.02	0.04	0.08	0.12	0.17	0.24	0.33	0.42	0.49	0.53	0.54	0.52	0.49	0.46	0.43	0.42	0.41
-30	0.00	0.00	0.03	0.08	0.15	0.24	0.36	0.49	0.61	0.70	0.75	0.95	1.37	2.10	2.92	3.73	4.84	5.77	6.29
-20	0.00	0.01	0.05	0.13	0.23	0.37	0.54	0.69	0.83	1.10	1.84	3.13	4.82	8.62	15.9	27.6	42.1	57.9	66.9
-10	0.00	0.01	0.07	0.17	0.30	0.47	0.66	0.84	1.22	2.19	3.81	6.72	13.4	28.7	59.1	123	283	497	600
0	0.00	0.01	0.09	0.19	0.35	0.54	0.73	0.97	1.66	3.15	5.43	10.6	22.4	46.9	97.1	243	552	906	1058
10	0.00	0.02	0.10	0.22	0.38	0.58	0.78	1.10	2.00	3.63	6.43	12.2	23.8	44.1	80.2	153	289	451	525
20	0.00	0.02	0.11	0.23	0.40	0.59	0.78	1.11	1.97	3.52	5.94	10.4	17.8	29.0	43.9	64.6	88.9	111	120
30	0.00	0.03	0.11	0.23	0.38	0.56	0.74	0.98	1.61	2.81	4.45	7.23	11.2	16.5	22.6	29.0	34.3	39.2	40.4
40	0.00	0.03	0.11	0.21	0.35	0.51	0.67	0.84	1.16	1.86	2.96	4.30	6.23	8.59	11.2	13.7	15.8	17.3	17.8
50	0.00	0.03	0.10	0.19	0.30	0.43	0.57	0.71	0.85	1.09	1.58	2.27	3.10	3.99	4.99	6.02	6.86	7.40	7.59
60	0.00	0.02	0.08	0.16	0.24	0.34	0.45	0.57	0.67	0.77	0.86	1.01	1.27	1.59	1.94	2.27	2.54	2.69	2.75
70	0.00	0.02	0.06	0.12	0.19	0.26	0.33	0.41	0.49	0.56	0.63	0.68	0.72	0.76	0.80	0.83	0.86	0.88	0.90
80	0.00	0.02	0.05	0.09	0.13	0.18	0.23	0.28	0.32	0.36	0.41	0.44	0.47	0.50	0.52	0.54	0.55	0.56	0.56
90	0.00	0.01	0.03	0.05	0.08	0.11	0.14	0.17	0.20	0.22	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29
100	0.00	0.01	0.01	0.03	0.04	0.06	0.08	0.09	0.10	0.11	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14
110	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	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	0.02	0.05	0.07	0.09	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	0.36	0.53	0.69	0.79	0.84
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.09	0.20	0.41	0.72	1.11	1.47	1.74	1.89	1.95
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.19	0.40	0.77	1.28	1.77	2.06	2.09	1.98	1.95
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.12	0.25	0.51	0.96	1.52	2.00	2.20	2.06	1.84	1.79

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
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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	2.05	2.38	2.62	2.58	2.26	1.73	1.13	0.62	0.31	0.15	0.07	0.04	0.02	0.01	0.00	0.00	0.00	0.00	
-170	2.56	2.67	2.69	2.51	2.13	1.58	1.01	0.56	0.29	0.15	0.08	0.04	0.02	0.01	0.00	0.00	0.00	0.00	
-160	2.70	2.59	2.37	2.04	1.60	1.12	0.70	0.40	0.22	0.13	0.07	0.04	0.02	0.01	0.00	0.00	0.00	0.00	
-150	1.81	1.66	1.44	1.16	0.86	0.60	0.39	0.25	0.15	0.09	0.06	0.03	0.02	0.01	0.00	0.00	0.00	0.00	
-140	0.73	0.67	0.57	0.46	0.36	0.27	0.20	0.14	0.10	0.07	0.04	0.02	0.01	0.01	0.00	0.00	0.00	0.00	
-130	0.25	0.24	0.22	0.19	0.16	0.13	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	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-110	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	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	0.00	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	0.24	0.23	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	0.42	0.43	0.45	0.49	0.52	0.54	0.53	0.49	0.42	0.33	0.23	0.16	0.11	0.07	0.04	0.02	0.01	0.00	
-30	5.68	4.71	3.62	2.84	2.03	1.33	0.94	0.75	0.69	0.60	0.48	0.35	0.23	0.14	0.08	0.04	0.02	0.00	
-20	58.7	43.0	27.7	15.9	8.49	4.69	3.05	1.80	1.08	0.82	0.67	0.52	0.36	0.22	0.13	0.06	0.03	0.00	
-10	497	283	126	61.3	29.6	13.5	6.66	3.77	2.15	1.19	0.83	0.65	0.47	0.30	0.17	0.09	0.03	0.00	
0	909	566	262	108	50.8	24.2	11.2	5.67	3.25	1.73	0.99	0.74	0.56	0.37	0.21	0.11	0.03	0.00	
10	455	297	162	86.9	47.7	25.4	12.8	6.70	3.73	2.06	1.12	0.78	0.59	0.39	0.23	0.12	0.04	0.00	
20	113	92.0	67.6	46.8	30.9	18.7	10.8	6.16	3.61	2.02	1.11	0.78	0.59	0.40	0.23	0.12	0.04	0.00	
30	39.5	35.1	30.0	23.5	17.0	11.6	7.42	4.56	2.86	1.65	0.97	0.74	0.56	0.38	0.23	0.12	0.04	0.00	
40	17.4	16.0	13.9	11.4	8.72	6.32	4.36	3.00	1.89	1.16	0.84	0.68	0.51	0.34	0.21	0.11	0.04	0.00	
50	7.43	6.91	6.08	5.03	4.00	3.12	2.29	1.59	1.10	0.85	0.71	0.57	0.43	0.30	0.18	0.10	0.03	0.00	
60	2.69	2.53	2.25	1.93	1.61	1.28	1.00	0.85	0.76	0.67	0.57	0.45	0.34	0.24	0.15	0.08	0.03	0.00	
70	0.89	0.87	0.83	0.79	0.74	0.70	0.65	0.60	0.55	0.48	0.41	0.33	0.25	0.18	0.12	0.06	0.02	0.00	
80	0.55	0.54	0.52	0.50	0.48	0.45	0.41	0.38	0.34	0.31	0.27	0.23	0.18	0.13	0.09	0.04	0.02	0.00	
90	0.28	0.28	0.27	0.26	0.25	0.24	0.22	0.21	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	0.79	0.69	0.52	0.36	0.21	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	1.90	1.74	1.47	1.10	0.71	0.40	0.19	0.09	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	2.04	2.12	2.08	1.77	1.26	0.76	0.38	0.17	0.08	0.04	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	
180	2.05	2.38	2.62	2.58	2.26	1.73	1.13	0.62	0.31	0.15	0.07	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: