

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

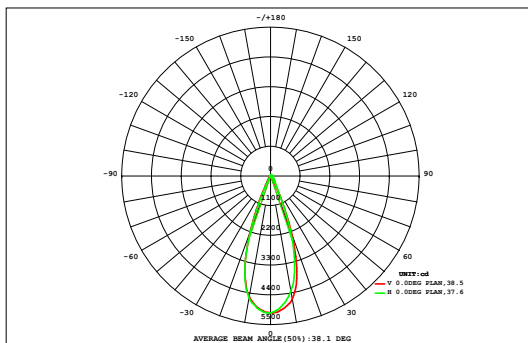
Maximum Intensity		2461.6 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	54.9V x 55.4H
	At 50% of Imax	37.6V x 38.5H
	At 90% of Imax	18.2V x 20.2H
Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	885.4 lumens per klm.
	To 50% of Imax	650.9 lumens per klm.
	To 90% of Imax	199.7 lumens per klm.
Upward LOR		1.4 %
Downward LOR		98.6 %
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:2026-03-25

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:2.479A P:23.57W PF:0.7866 Freq:59.99Hz Lamp Flux:2062.14x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Spot Light	WEIGHT:
SPEC.:23W 5700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:87.48lm/W	
MODEL	D7B1-23W-A	Imax (cd)	5076
NOMINAL POWER (W)	23	AVAILABILITY (%)	88.5
RATED VOLTAGE (V)	12	Avai. FLUX(lm)	1825
NOMINAL FLUX(lm)	2062.14	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2062
TEST VOLTAGE (V)	12	θ @50% (H,V)	38,38DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.11	0.19	0.30	0.45	0.61	0.78	0.93	1.05	1.12	1.11	1.05	0.92	0.76	0.59	0.42	0.27	0.17	0.10	10.9	0.00
45	0.15	0.27	0.43	0.63	0.89	1.16	1.40	1.61	1.72	1.73	1.62	1.40	1.14	0.86	0.61	0.39	0.24	0.13	16.4	0.00
40	0.20	0.35	0.58	0.89	1.27	1.70	2.11	2.44	2.63	2.65	2.48	2.14	1.71	1.25	0.85	0.54	0.32	0.17	24.3	0.00
35	0.24	0.44	0.76	1.22	1.80	2.50	3.27	4.08	4.68	4.73	4.18	3.38	2.57	1.81	1.19	0.72	0.41	0.21	38.2	14.8
30	0.29	0.54	0.96	1.62	2.56	3.97	6.32	9.07	11.0	11.1	9.25	6.53	4.14	2.64	1.62	0.93	0.50	0.25	73.3	59.0
25	0.32	0.63	1.18	2.11	3.81	7.46	13.1	18.2	21.1	21.3	18.5	13.4	7.74	3.99	2.15	1.15	0.59	0.29	137	126
20	0.34	0.70	1.38	2.71	5.97	13.0	21.1	26.7	29.5	29.8	27.3	21.5	13.4	6.28	2.81	1.37	0.66	0.31	205	196
15	0.34	0.72	1.50	3.32	8.65	18.2	26.9	32.2	34.6	35.0	33.1	27.8	18.8	9.09	3.47	1.50	0.68	0.30	256	248
10	0.32	0.70	1.51	3.73	10.4	21.1	30.2	35.2	37.4	37.6	35.8	31.0	21.9	10.9	3.82	1.47	0.64	0.28	284	277
5	0.28	0.62	1.38	3.63	10.5	21.4	30.7	35.9	38.0	38.0	36.1	31.3	22.2	10.8	3.59	1.29	0.55	0.23	286	279
0	0.23	0.51	1.12	2.87	8.56	18.6	28.2	34.0	36.2	36.1	34.0	28.6	19.2	8.57	2.71	0.99	0.42	0.18	261	254
-5	0.17	0.36	0.79	1.85	5.48	13.2	22.2	28.5	31.4	31.4	28.6	22.5	13.3	5.24	1.67	0.67	0.29	0.13	208	201
-10	0.11	0.23	0.50	1.04	2.61	6.82	13.2	19.0	22.1	22.1	19.1	13.2	6.55	2.39	0.91	0.40	0.19	0.08	131	123
-15	0.07	0.14	0.27	0.53	1.06	2.41	4.98	8.15	10.1	10.1	8.08	4.84	2.25	0.94	0.44	0.22	0.10	0.05	54.8	45.3
-20	0.05	0.07	0.13	0.24	0.43	0.73	1.27	2.01	2.58	2.57	1.96	1.20	0.66	0.36	0.19	0.10	0.05	0.04	14.6	2.09
-25	0.04	0.04	0.06	0.09	0.15	0.23	0.34	0.44	0.51	0.50	0.41	0.30	0.19	0.12	0.07	0.04	0.04	0.03	3.59	0.00
-30	0.03	0.04	0.04	0.04	0.05	0.06	0.07	0.09	0.10	0.09	0.08	0.06	0.04	0.04	0.03	0.03	0.03	0.02	0.94	0.00
-35	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.48	0.00
-40																				
-45																				
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)	10	15	20	25	30	35	40	45			
Φ t	3.32	6.59	12.9	27.0	64.9	133	206	259	285	286	262	210	137	65.9	26.6	12.1	5.90	2.84	2006	---
Φ a	0.00	0.00	0.00	8.20	52.1	123	197	250	276	277	253	201	126	53.6	8.63	0.00	0.00	0.00	---	1825

one-half-peak spread: U:17.1,D:18.7 , L:19.1,R:19.5

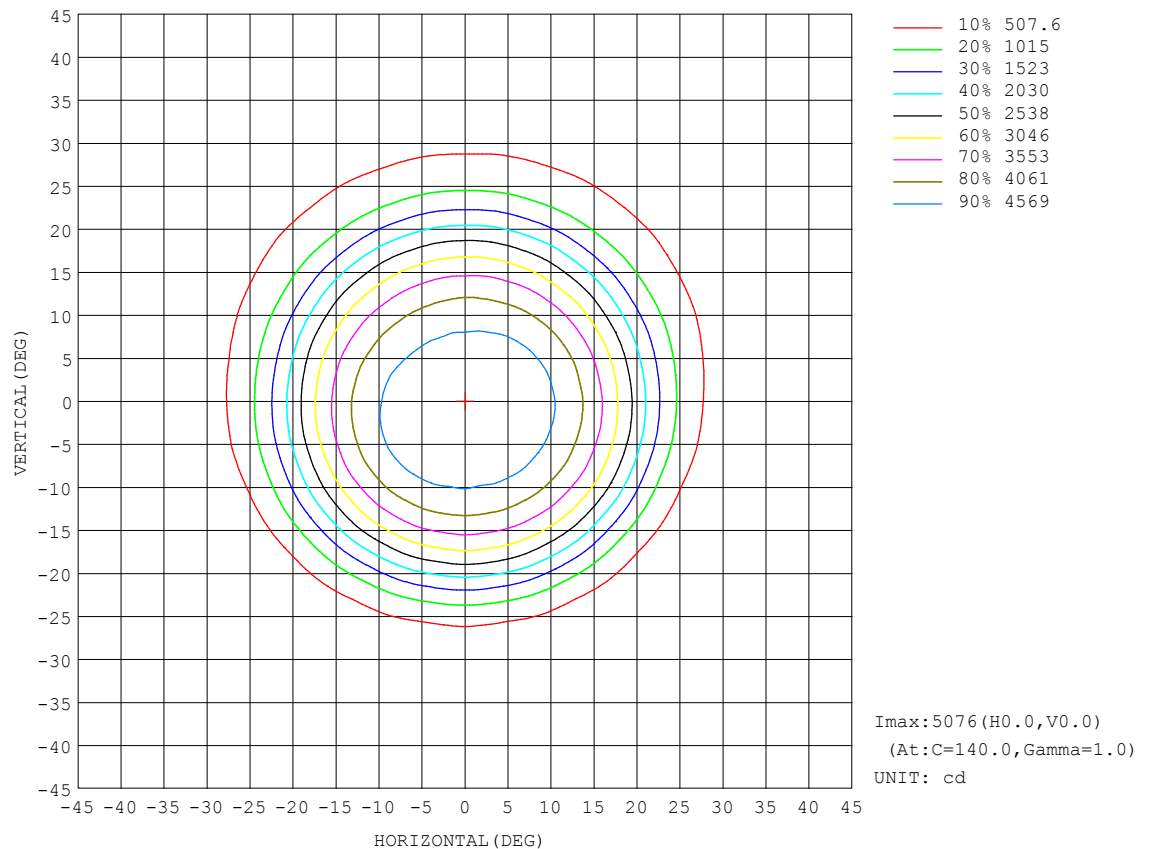
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-25

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

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SPEC.:23W 5700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Uplight Shroud

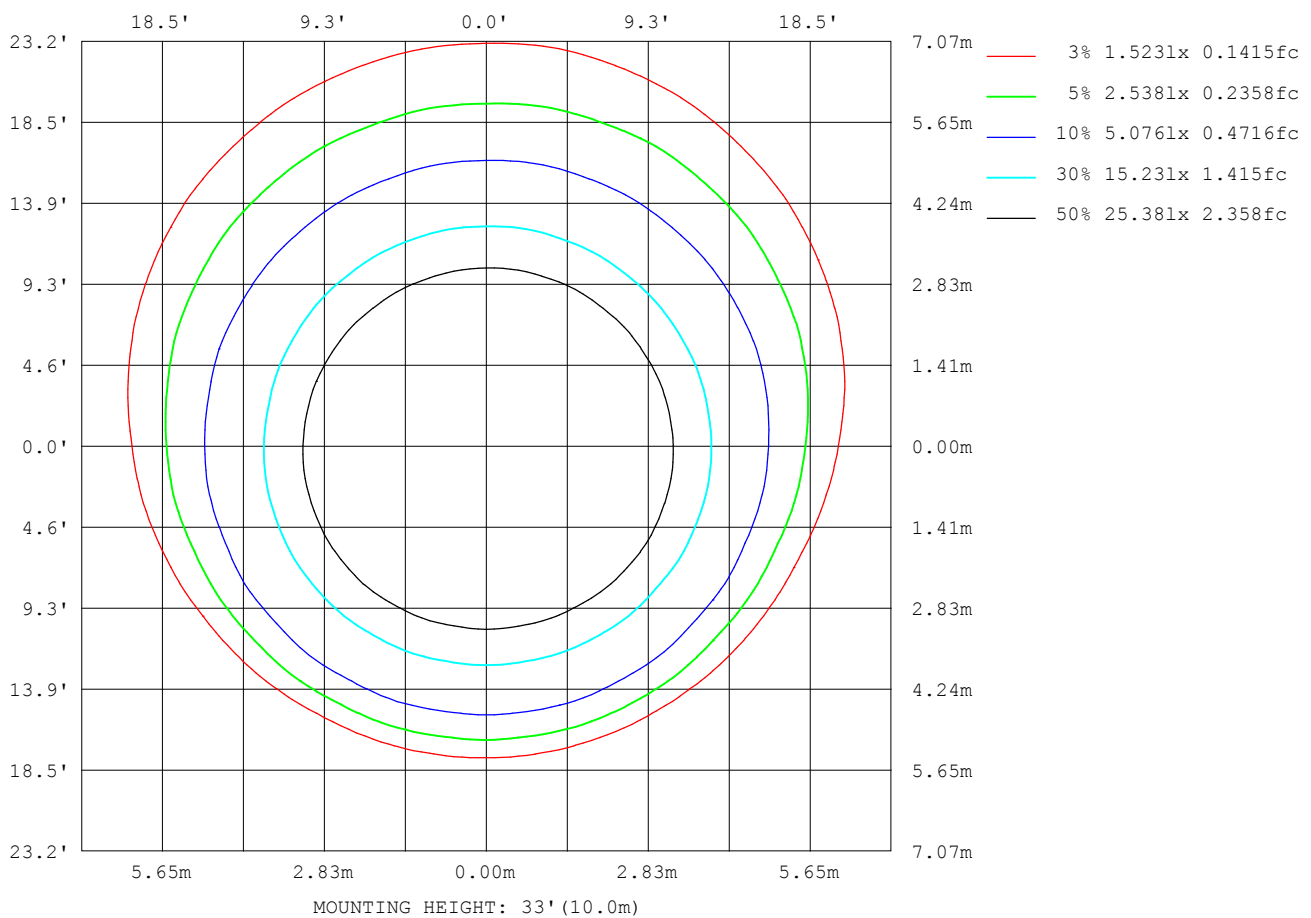


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ISOLUX DIAGRAM

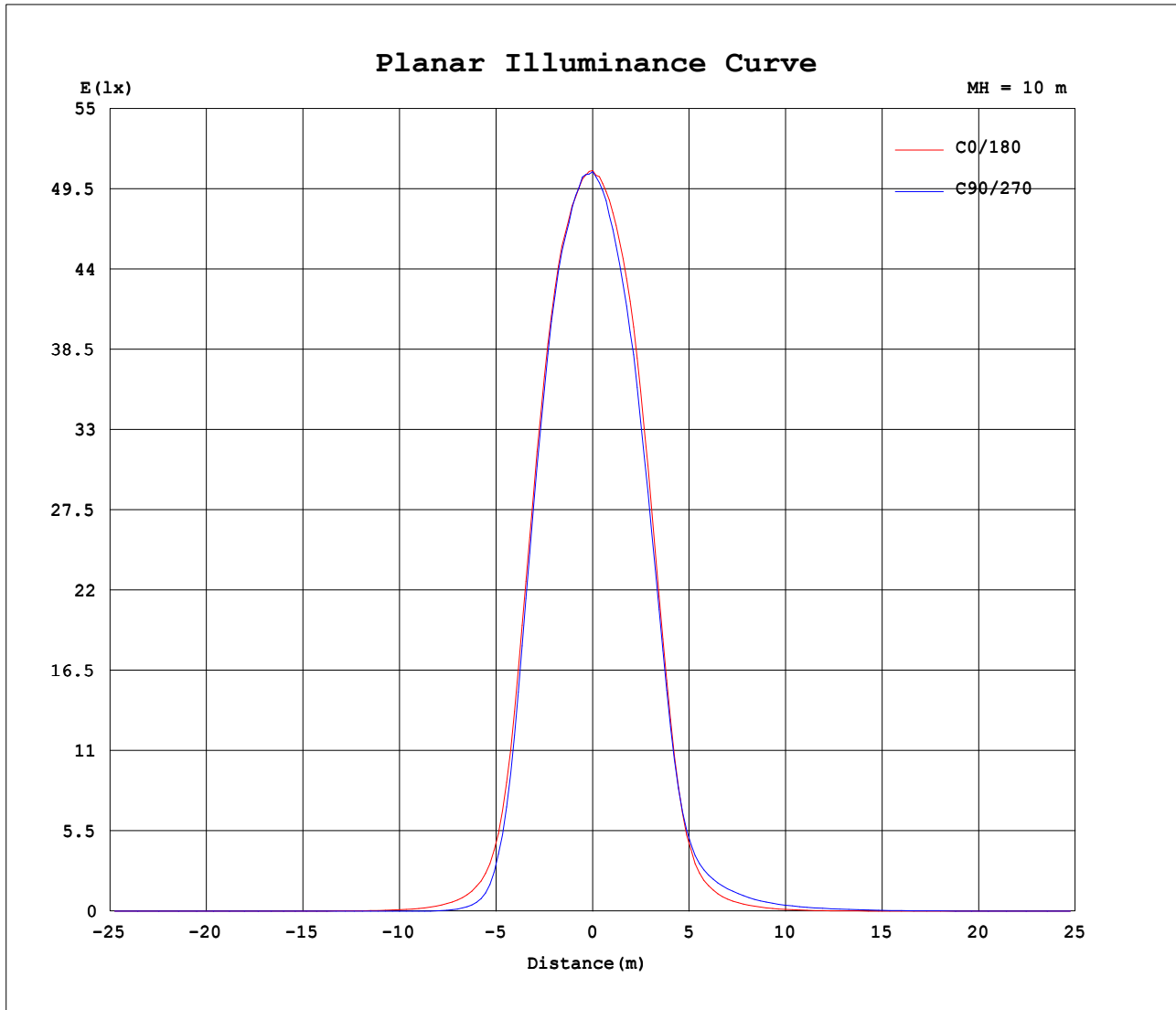
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Remarks:

Planar Illuminance Curve

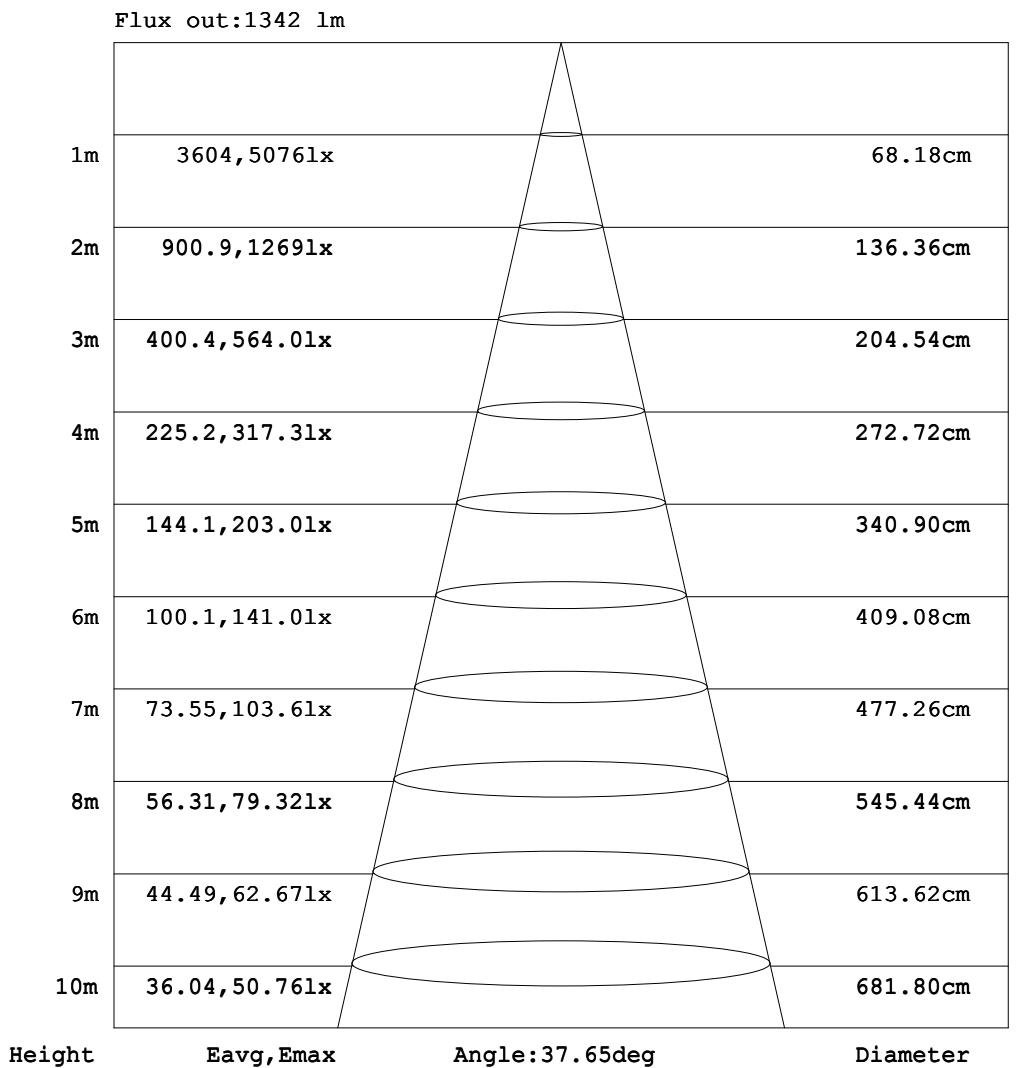


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Operators:ADMIN
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Remarks:

AAI Figure

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SPEC.:23W 5700K 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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V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
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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	0.19	0.66	1.84	4.18	7.74	12.0	16.0	19.3	21.4	22.8	24.2	24.9
-170	0.00	0.00	0.00	0.02	0.06	0.15	0.35	0.87	2.19	4.85	8.34	12.5	17.0	21.3	24.7	26.9	27.5	27.4	27.4
-160	0.00	0.00	0.01	0.04	0.11	0.26	0.51	0.94	1.87	3.62	6.27	9.54	13.2	16.9	20.3	23.1	25.1	26.3	26.7
-150	0.00	0.00	0.00	0.04	0.12	0.23	0.39	0.67	1.20	2.17	3.70	5.78	8.24	10.8	13.2	15.4	17.1	18.3	18.6
-140	0.00	0.00	0.00	0.05	0.08	0.15	0.27	0.47	0.76	1.17	1.77	2.67	3.83	5.13	6.47	7.66	8.63	9.23	9.38
-130	0.00	0.00	0.00	0.02	0.04	0.11	0.18	0.32	0.46	0.62	0.85	1.16	1.49	1.87	2.29	2.71	3.02	3.23	3.31
-120	0.00	0.00	0.00	0.00	0.01	0.02	0.11	0.18	0.24	0.31	0.43	0.56	0.66	0.76	0.90	1.00	1.06	1.12	1.17
-110	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.06	0.09	0.14	0.20	0.23	0.26	0.31	0.37	0.40	0.41	0.45	0.49
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.06	0.05	0.04	0.08	0.12	0.12	0.12	0.14	0.16
-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	0.01	0.03	0.02	0.07	0.00	0.04	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	0.03	0.10	0.20	0.30	0.34	0.52	0.56	0.81	1.02	1.33	1.64	1.96	2.14	2.31	2.36	2.31	2.27	2.16
-40	0.00	0.08	0.23	0.52	0.85	1.26	1.82	2.59	3.52	4.37	5.00	5.33	5.36	5.17	4.83	4.58	4.40	4.28	4.12
-30	0.00	0.13	0.43	0.91	1.56	2.45	3.63	4.95	6.08	6.91	7.61	10.2	16.5	28.2	44.3	65.6	96.7	122	134
-20	0.00	0.18	0.63	1.32	2.31	3.70	5.27	6.73	8.15	11.4	21.2	40.2	79.2	151	340	828	1465	1989	2192
-10	0.00	0.22	0.80	1.69	2.98	4.64	6.40	8.17	12.4	24.2	48.2	101	211	555	1569	2913	3944	4455	4594
0	0.00	0.25	0.94	1.97	3.49	5.29	7.15	9.52	18.0	36.1	76.2	152	327	901	2249	3671	4537	4929	5076
10	0.00	0.30	1.06	2.19	3.79	5.64	7.54	11.1	21.5	41.9	84.5	161	309	659	1552	2796	3693	4183	4342
20	0.00	0.33	1.13	2.27	3.87	5.70	7.52	11.0	20.7	39.2	72.6	126	213	343	551	942	1522	1981	2153
30	0.00	0.34	1.14	2.24	3.71	5.39	7.08	9.45	16.3	29.1	50.4	82.4	127	182	247	316	372	422	436
40	0.00	0.33	1.08	2.08	3.35	4.83	6.36	7.91	11.2	18.2	29.8	46.0	67.0	91.0	117	142	163	178	182
50	0.00	0.30	0.98	1.82	2.85	4.08	5.36	6.61	7.93	10.3	14.8	21.4	30.1	40.5	51.5	61.9	69.9	74.9	76.5
60	0.00	0.27	0.85	1.52	2.30	3.22	4.23	5.23	6.11	6.95	7.92	9.32	11.6	14.5	17.5	20.5	23.1	24.5	24.8
70	0.00	0.24	0.69	1.19	1.75	2.39	3.07	3.77	4.46	5.01	5.52	5.94	6.34	6.72	7.06	7.32	7.54	7.62	7.63
80	0.00	0.21	0.51	0.87	1.25	1.66	2.10	2.47	2.85	3.19	3.52	3.78	4.04	4.28	4.49	4.61	4.69	4.72	4.72
90	0.00	0.16	0.33	0.55	0.78	1.05	1.32	1.51	1.69	1.85	2.00	2.08	2.16	2.24	2.32	2.32	2.32	2.33	2.34
100	0.00	0.13	0.18	0.30	0.41	0.57	0.72	0.80	0.87	0.94	1.02	1.04	1.06	1.09	1.11	1.08	1.05	1.04	1.04
110	0.00	0.09	0.04	0.11	0.12	0.18	0.26	0.29	0.32	0.34	0.38	0.38	0.38	0.37	0.39	0.35	0.31	0.30	0.31
120	0.00	0.05	0.00	0.03	0.00	0.03	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
130	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	0.00	0.00	0.02	0.05	0.03
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.38	0.85	1.48	2.16	2.74	3.15	3.30
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.51	1.41	2.83	4.67	6.67	8.50	10.1	11.0	11.4
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.69	1.90	4.04	6.95	10.2	13.3	15.9	17.6	18.6	19.1
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.44	1.39	3.43	6.62	10.5	14.4	17.7	19.9	21.0	21.5	22.0
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.66	1.84	4.18	7.74	12.0	16.0	19.3	21.4	22.8	24.2	24.9

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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	25.8	26.4	26.9	25.6	22.4	17.9	13.2	8.82	5.17	2.59	1.16	0.54	0.26	0.12	0.03	0.01	0.00	0.00	
-170	27.8	27.8	27.0	24.6	21.0	16.7	12.2	8.11	4.76	2.43	1.15	0.57	0.30	0.15	0.04	0.01	0.00	0.00	
-160	26.4	25.2	23.1	20.2	16.7	12.9	9.32	6.10	3.55	1.85	0.96	0.53	0.31	0.15	0.05	0.01	0.00	0.00	
-150	18.2	17.0	15.3	13.1	10.6	8.07	5.66	3.63	2.14	1.21	0.70	0.43	0.25	0.15	0.06	0.01	0.00	0.00	
-140	9.19	8.54	7.57	6.39	5.06	3.78	2.64	1.76	1.18	0.79	0.49	0.30	0.16	0.10	0.06	0.01	0.00	0.00	
-130	3.23	3.01	2.69	2.29	1.86	1.49	1.18	0.87	0.64	0.48	0.34	0.19	0.11	0.05	0.03	0.01	0.00	0.00	
-120	1.12	1.06	1.01	0.92	0.77	0.68	0.59	0.46	0.32	0.26	0.19	0.12	0.04	0.01	0.02	0.00	0.00	0.00	
-110	0.44	0.41	0.42	0.39	0.33	0.28	0.26	0.21	0.15	0.12	0.08	0.06	0.03	0.00	0.00	0.00	0.00	0.00	
-100	0.14	0.12	0.13	0.12	0.09	0.05	0.05	0.06	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	0.01	0.00	
-50	2.11	1.98	1.80	1.63	1.36	1.12	0.79	0.62	0.34	0.29	0.16	0.19	0.02	0.11	0.00	0.07	0.02	0.00	
-40	4.05	3.97	3.98	4.20	4.44	4.53	4.45	4.05	3.36	2.50	1.69	1.07	0.66	0.41	0.11	0.15	0.05	0.00	
-30	119	89.8	58.6	37.9	22.0	11.7	7.50	6.22	5.77	4.97	3.88	2.65	1.65	0.93	0.49	0.27	0.08	0.00	
-20	1986	1456	794	312	131	62.8	32.5	15.7	8.50	6.74	5.57	4.20	2.78	1.62	0.87	0.41	0.12	0.00	
-10	4449	3960	2993	1577	524	188	84.7	39.4	18.7	9.42	6.85	5.37	3.76	2.29	1.24	0.56	0.14	0.00	
0	4952	4629	3786	2361	926	320	140	65.1	30.6	14.3	7.88	6.18	4.50	2.83	1.54	0.70	0.16	0.00	
10	4259	3801	2864	1617	683	314	155	77.6	37.0	17.9	9.13	6.57	4.84	3.11	1.72	0.79	0.20	0.00	
20	2007	1556	976	577	351	210	120	65.8	34.3	17.5	9.20	6.62	4.90	3.19	1.78	0.84	0.21	0.00	
30	429	382	324	249	179	121	76.4	44.7	25.5	13.9	8.06	6.26	4.65	3.07	1.73	0.83	0.22	0.00	
40	178	162	140	115	87.5	62.4	41.3	26.4	16.0	9.60	7.04	5.63	4.15	2.72	1.58	0.77	0.20	0.00	
50	74.5	68.6	59.3	48.2	37.3	27.3	19.0	13.2	9.09	7.12	5.92	4.70	3.46	2.29	1.37	0.67	0.17	0.00	
60	24.0	22.2	19.2	16.0	13.0	10.4	8.43	7.17	6.26	5.46	4.61	3.64	2.66	1.82	1.12	0.54	0.15	0.00	
70	7.51	7.32	6.97	6.59	6.20	5.78	5.36	4.92	4.43	3.85	3.21	2.56	1.92	1.36	0.84	0.40	0.12	0.00	
80	4.62	4.49	4.28	4.05	3.80	3.53	3.25	2.98	2.66	2.33	2.01	1.69	1.30	0.92	0.56	0.25	0.08	0.00	
90	2.26	2.18	2.09	2.00	1.89	1.78	1.68	1.59	1.45	1.32	1.16	1.01	0.77	0.53	0.32	0.10	0.05	0.00	
100	0.98	0.93	0.91	0.89	0.82	0.77	0.76	0.73	0.67	0.59	0.53	0.47	0.34	0.20	0.13	0.01	0.01	0.00	
110	0.26	0.22	0.21	0.21	0.18	0.15	0.16	0.16	0.12	0.11	0.10	0.10	0.08	0.00	0.04	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	0.05	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	3.15	2.77	2.19	1.53	0.91	0.42	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150	11.0	10.1	8.55	6.71	4.72	2.89	1.48	0.58	0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	18.8	17.7	15.9	13.3	10.2	6.95	4.04	1.93	0.75	0.21	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.00	
170	22.1	21.3	20.1	17.8	14.4	10.4	6.53	3.41	1.46	0.77	0.36	0.21	0.13	0.08	0.02	0.01	0.00	0.00	
180	25.8	26.4	26.9	25.6	22.4	17.9	13.2	8.82	5.17	2.59	1.16	0.54	0.26	0.12	0.03	0.01	0.00	0.00	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-03-25

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: