

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1583.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	73.7V x 73.6H
	At 50% of Imax	46.4V x 48.3H
	At 90% of Imax	20.5V x 20.8H

Beam Flux	Total	1000.2 lumens per klm.
	To 10% of Imax	918.6 lumens per klm.
	To 50% of Imax	622.7 lumens per klm.
	To 90% of Imax	151.3 lumens per klm.

Upward LOR	1.2 %
Downward LOR	98.8 %

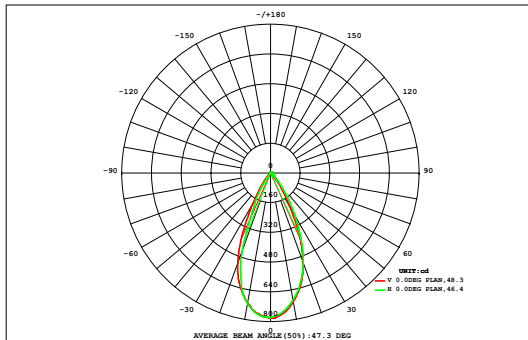
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-02-26

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:12.15V I:2.454A P:22.99W PF:0.7711 Freq:59.99Hz Lamp Flux:493.553x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Copper alloy Spotlight	WEIGHT:
SPEC.:23W RED 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:Uplight Shroud



DATA OF LAMP		Eff:21.47lm/W	
MODEL	D9B1-23W-A	Imax (cd)	781.3
NOMINAL POWER (W)	23	AVAILABILITY (%)	91.6
RATED VOLTAGE (V)	12	Avai. FLUX (lm)	452.1
NOMINAL FLUX (lm)	493.553	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	493.6
TEST VOLTAGE (V)	12	θ @50% (H,V)	48,46DEG

72 64 56 48 40 32 24 -24 -32 -40 -48 -56 -64 -72	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a	
	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.60	0.00	
	0.00	0.01	0.02	0.03	0.05	0.08	0.11	0.14	0.17	0.16	0.14	0.11	0.08	0.05	0.03	0.02	0.01	0.00	1.21	0.00	
	0.01	0.01	0.03	0.05	0.09	0.15	0.23	0.31	0.38	0.38	0.31	0.22	0.15	0.09	0.05	0.03	0.01	0.01	2.49	0.00	
	0.01	0.02	0.04	0.08	0.15	0.29	0.49	0.74	0.95	0.95	0.75	0.49	0.29	0.15	0.07	0.04	0.02	0.01	5.52	0.05	
	0.01	0.02	0.05	0.11	0.27	0.60	1.22	2.01	2.64	2.66	2.06	1.28	0.63	0.27	0.11	0.05	0.02	0.01	14.0	9.84	
	0.01	0.03	0.06	0.17	0.47	1.30	2.79	4.55	5.80	5.83	4.63	2.91	1.41	0.51	0.16	0.06	0.02	0.01	30.7	28.1	
	0.01	0.03	0.07	0.23	0.81	2.38	5.16	8.10	9.73	9.72	8.12	5.30	2.56	0.91	0.24	0.07	0.03	0.01	53.5	51.4	
	0.01	0.03	0.08	0.28	1.16	3.56	7.68	11.1	12.7	12.7	11.0	7.72	3.78	1.34	0.32	0.07	0.02	0.01	73.6	71.8	
	0.01	0.02	0.07	0.30	1.35	4.35	9.15	12.6	14.5	14.4	12.5	9.09	4.58	1.57	0.36	0.07	0.02	0.01	85.0	83.3	
	0.01	0.02	0.06	0.27	1.24	4.16	8.98	12.7	14.6	14.6	12.6	8.92	4.39	1.47	0.33	0.06	0.02	0.01	84.4	82.7	
	0.01	0.02	0.05	0.20	0.89	3.04	6.97	10.8	12.8	12.8	10.7	7.01	3.25	1.06	0.23	0.05	0.02	0.01	70.0	68.3	
	0.01	0.02	0.04	0.12	0.46	1.66	3.97	6.66	8.40	8.39	6.68	4.11	1.83	0.57	0.13	0.03	0.02	0.01	43.1	41.1	
	0.01	0.02	0.03	0.07	0.19	0.58	1.56	2.77	3.43	3.46	2.86	1.69	0.69	0.23	0.07	0.02	0.01	0.01	17.7	14.9	
	0.01	0.01	0.02	0.04	0.08	0.16	0.30	0.55	0.73	0.75	0.61	0.36	0.19	0.08	0.03	0.02	0.01	0.00	3.96	0.50	
	0.00	0.01	0.02	0.02	0.03	0.05	0.07	0.07	0.04	0.04	0.08	0.07	0.05	0.03	0.02	0.01	0.01	0.00	0.62	0.00	
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.23	0.00	
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.12	0.00	
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.06	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72	
Φ t	0.12	0.29	0.67	2.03	7.31	22.4	48.8	73.2	87.0	86.9	73.2	49.4	23.9	8.37	2.20	0.61	0.26	0.11	487	---	
Φ a	0.00	0.00	0.00	0.00	2.74	19.5	46.3	71.0	84.8	84.8	71.0	46.9	21.1	3.99	0.00	0.00	0.00	0.00	---	452	

one-half-peak spread: U:18.5,D:25.1 , L:25.2,R:23.4

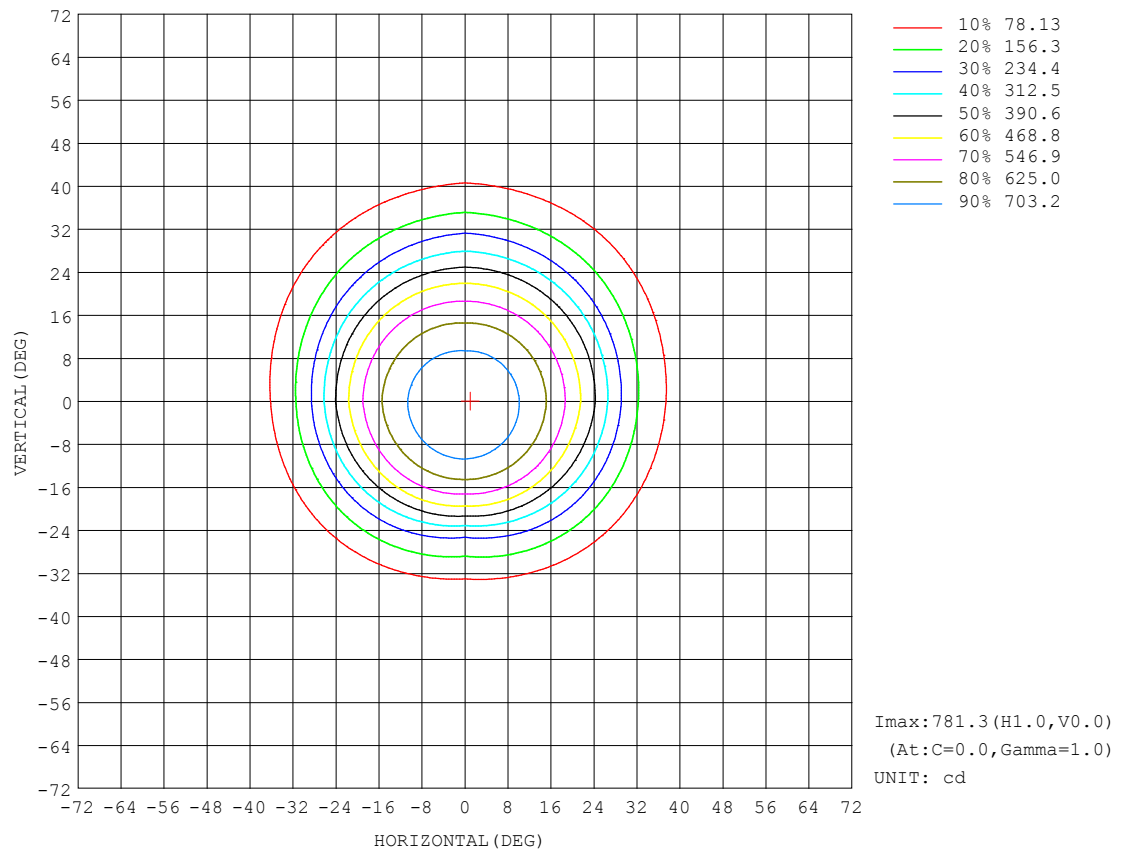
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-02-26

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:12.15V I:2.454A P:22.99W PF:0.7711 Freq:59.99Hz Lamp Flux:493.553x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Copper alloy Spotlight	WEIGHT:
SPEC.:23W RED 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:Uplight Shroud

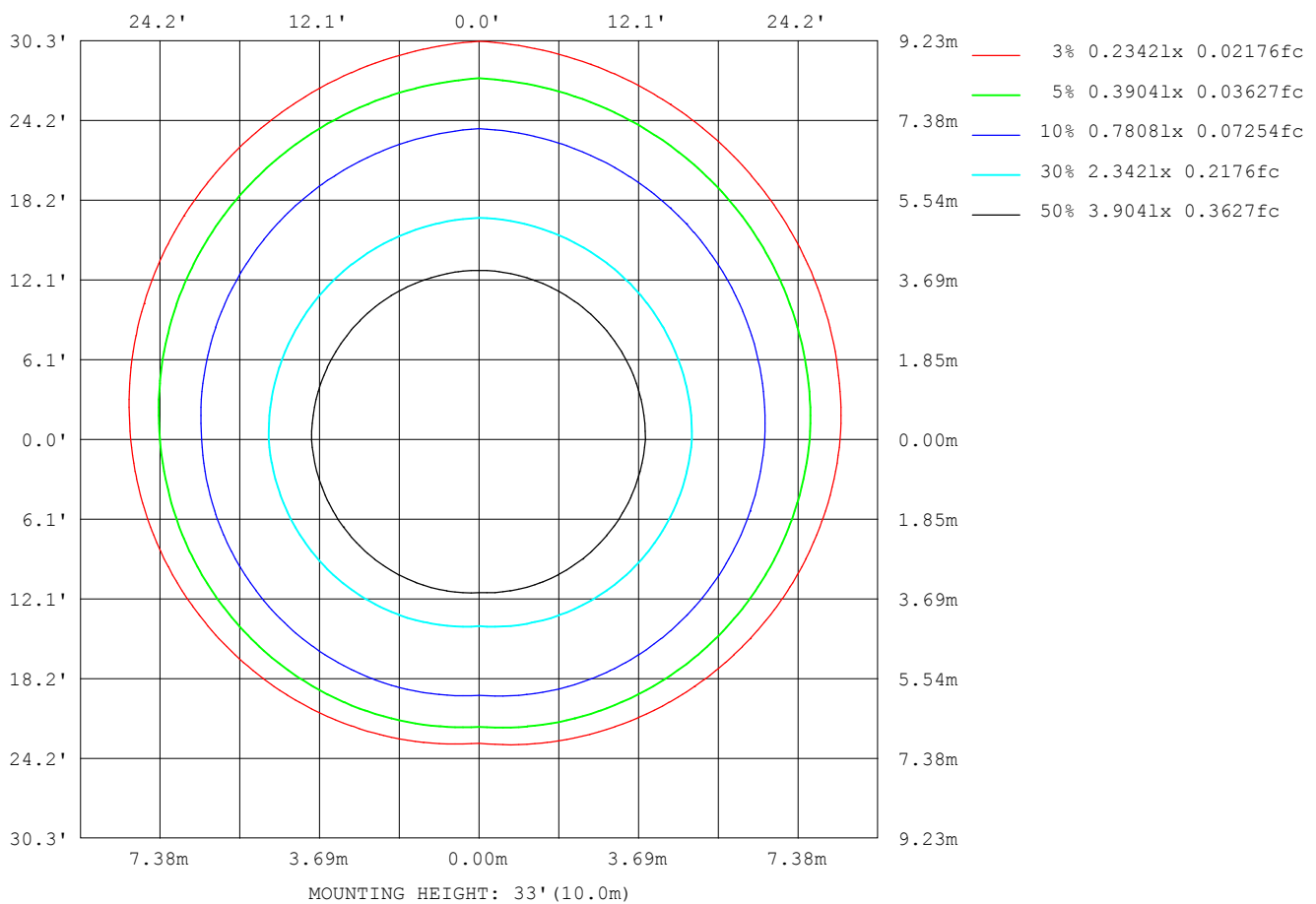


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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-02-26

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V(B) Interval: 0.5DEG
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Humidity:65.0%
Test Distance:13.563m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

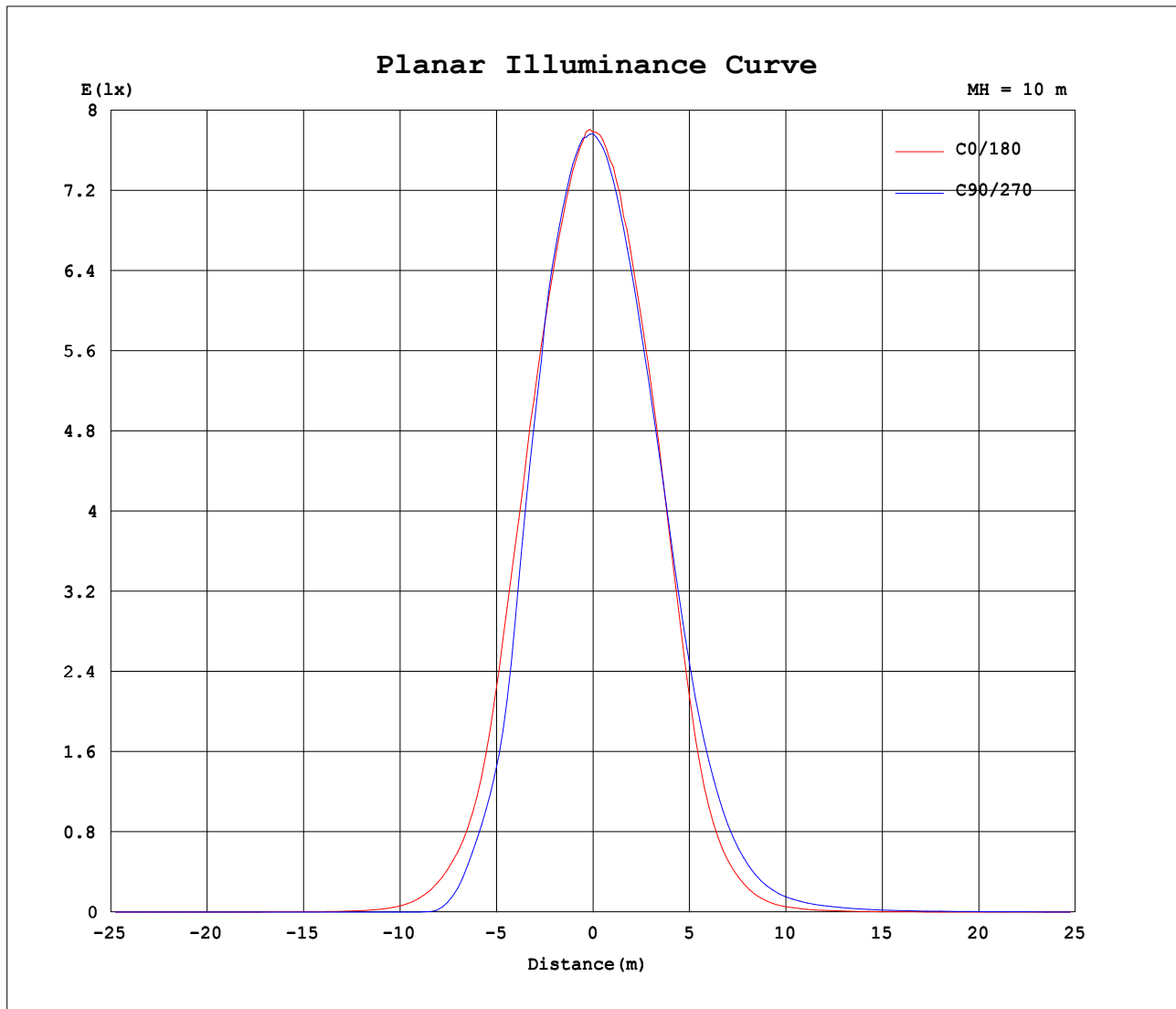
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H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-02-26

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

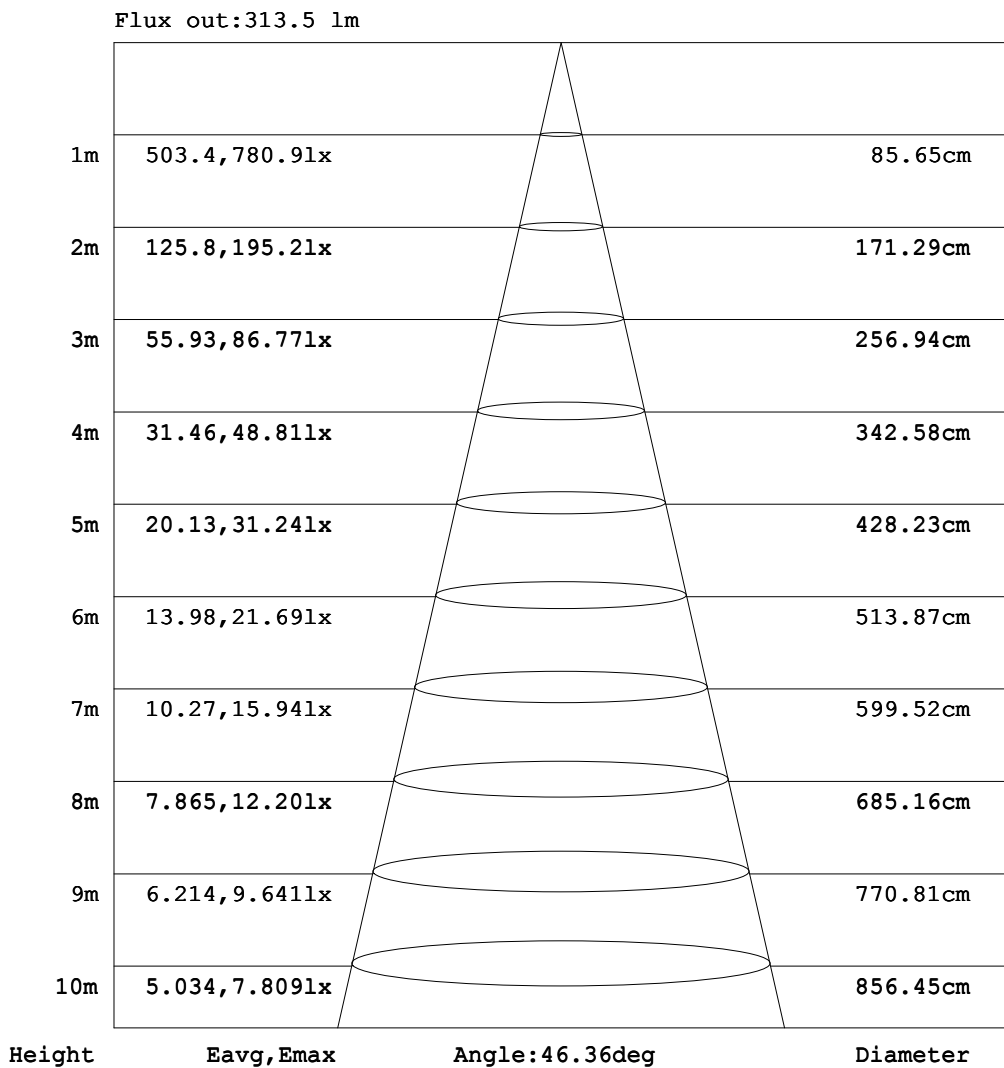


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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-02-26

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:12.15V I:2.454A P:22.99W PF:0.7711 Freq:59.99Hz Lamp Flux:493.553x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Copper alloy Spotlight	WEIGHT:
SPEC.:23W RED 40°LENS	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:Uplight Shroud



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:2025-02-26

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:12.15V I:2.454A P:22.99W PF:0.7711 Freq:59.99Hz Lamp Flux:493.553x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Copper alloy Spotlight	WEIGHT:
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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	0.00	0.25	0.67	1.21	1.86	2.51	3.13	3.66	4.19	4.74	5.28	5.45
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.28	0.70	1.24	1.88	2.56	3.23	3.84	4.39	4.93	5.31	5.61
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.21	0.56	1.04	1.59	2.22	2.84	3.43	3.97	4.43	4.82	5.11
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.14	0.33	0.68	1.10	1.57	2.06	2.55	2.99	3.37	3.68	3.88
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.17	0.31	0.56	0.85	1.18	1.49	1.80	2.06	2.25	2.38
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.21	0.32	0.45	0.61	0.76	0.91	1.04	1.13
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.10	0.14	0.20	0.23	0.26	0.29
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-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	0.00	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	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.01	0.00
-70	0.00	0.00	0.00	0.00	0.01	0.10	0.17	0.21	0.25	0.31	0.32	0.32	0.31	0.28	0.24	0.19	0.14	0.07	0.00
-60	0.00	0.00	0.00	0.05	0.20	0.32	0.44	0.54	0.62	0.70	0.71	0.73	0.67	0.62	0.53	0.42	0.29	0.15	0.00
-50	0.00	0.00	0.01	0.19	0.36	0.58	0.76	0.93	1.07	1.16	1.20	1.21	1.26	1.32	1.36	1.39	1.22	0.89	0.45
-40	0.00	0.00	0.07	0.30	0.58	0.85	1.12	1.35	1.55	1.79	2.29	3.27	4.45	5.60	6.60	7.00	6.35	4.56	1.55
-30	0.00	0.00	0.14	0.41	0.77	1.15	1.47	1.80	2.29	3.61	6.07	10.0	17.1	30.8	56.8	89.7	118	134	134
-20	0.00	0.00	0.19	0.56	0.95	1.41	1.83	2.35	3.82	7.27	14.4	31.1	69.7	134	214	298	380	436	449
-10	0.00	0.00	0.24	0.62	1.10	1.61	2.12	3.00	5.76	12.1	28.8	69.8	147	270	421	554	644	697	714
0	0.00	0.00	0.26	0.66	1.19	1.71	2.31	3.48	7.02	15.6	40.1	93.8	192	357	517	633	713	759	778
10	0.00	0.01	0.27	0.69	1.22	1.86	2.64	4.06	7.84	16.3	38.2	86.8	170	303	452	567	640	684	694
20	0.00	0.02	0.25	0.68	1.16	1.85	2.71	4.04	7.08	13.4	26.4	56.1	108	183	280	381	457	501	516
30	0.00	0.03	0.22	0.58	1.06	1.66	2.47	3.63	5.54	9.35	15.9	27.3	48.4	82.0	124	170	213	246	262
40	0.00	0.04	0.18	0.50	0.91	1.36	2.01	2.92	4.16	5.98	9.00	13.5	19.8	28.2	39.4	52.8	66.5	78.0	84.6
50	0.00	0.05	0.12	0.40	0.70	1.08	1.48	2.06	2.85	3.84	5.10	6.68	8.83	11.5	14.5	17.6	20.6	23.1	24.8
60	0.00	0.05	0.12	0.26	0.52	0.78	1.07	1.37	1.71	2.16	2.72	3.42	4.17	5.00	5.85	6.71	7.51	8.19	8.69
70	0.00	0.05	0.11	0.19	0.29	0.49	0.70	0.88	1.08	1.31	1.50	1.72	1.92	2.12	2.33	2.53	2.72	2.88	3.01
80	0.00	0.05	0.10	0.17	0.24	0.31	0.40	0.49	0.59	0.70	0.83	0.95	1.07	1.19	1.30	1.41	1.51	1.61	1.69
90	0.00	0.05	0.09	0.14	0.18	0.23	0.27	0.32	0.36	0.41	0.45	0.50	0.54	0.59	0.63	0.68	0.72	0.77	0.81
100	0.00	0.04	0.08	0.11	0.13	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.27
110	0.00	0.04	0.06	0.08	0.09	0.09	0.09	0.08	0.07	0.05	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.03	0.05	0.06	0.05	0.04	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
130	0.00	0.03	0.04	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.02	0.00
140	0.00	0.02	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.17	0.32	0.46	0.60	0.68	0.74	0.73
150	0.00	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.24	0.51	0.83	1.18	1.49	1.77	1.97	2.10	2.12
160	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.06	0.29	0.66	1.11	1.62	2.11	2.56	2.94	3.17	3.31	3.34
170	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.18	0.54	1.02	1.61	2.23	2.82	3.32	3.75	4.12	4.32	4.31
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.67	1.21	1.86	2.51	3.13	3.66	4.19	4.74	5.28	5.39

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Temperature:25.3DEG
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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%
Test Distance:13.563m [K=1.0000]
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LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: EVERFINE	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	5.50	5.26	4.99	4.60	4.12	3.50	2.73	1.99	1.33	0.75	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-170	5.49	5.29	4.95	4.53	3.98	3.33	2.62	1.88	1.24	0.68	0.30	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
-160	4.97	4.73	4.39	3.95	3.40	2.80	2.15	1.56	0.99	0.54	0.19	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
-150	3.78	3.58	3.28	2.90	2.45	1.97	1.50	1.03	0.62	0.32	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
-140	2.32	2.18	1.98	1.72	1.42	1.10	0.78	0.51	0.27	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	1.08	0.98	0.85	0.73	0.57	0.42	0.27	0.13	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-120	0.26	0.23	0.20	0.14	0.10	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-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	0.00	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	0.01	0.01	0.02	0.02	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	
-70	0.06	0.12	0.17	0.21	0.24	0.26	0.26	0.26	0.23	0.19	0.14	0.09	0.02	0.00	0.00	0.00	0.00	0.00	
-60	0.13	0.26	0.37	0.47	0.55	0.61	0.64	0.64	0.60	0.53	0.45	0.34	0.22	0.10	0.00	0.00	0.00	0.00	
-50	0.85	1.13	1.24	1.16	1.11	1.07	1.08	1.07	1.04	0.95	0.83	0.65	0.47	0.28	0.09	0.00	0.00	0.00	
-40	5.42	7.80	8.67	7.84	6.12	4.41	2.91	1.92	1.54	1.39	1.22	1.00	0.73	0.47	0.21	0.00	0.00	0.00	
-30	135	122	95.0	63.4	37.0	21.4	11.6	6.01	3.11	1.95	1.61	1.33	1.02	0.66	0.33	0.04	0.00	0.00	
-20	435	381	302	222	144	80.5	39.1	17.2	7.22	3.24	2.04	1.64	1.25	0.82	0.42	0.09	0.00	0.00	
-10	695	641	551	422	281	161	83.3	36.2	13.4	5.18	2.54	1.90	1.43	0.95	0.50	0.12	0.00	0.00	
0	760	705	628	507	367	209	110	50.6	18.0	6.50	2.94	2.08	1.55	1.03	0.54	0.13	0.00	0.00	
10	681	637	564	453	314	183	100	45.6	17.6	7.26	3.60	2.42	1.69	1.07	0.56	0.15	0.01	0.00	
20	500	457	385	288	193	119	64.0	29.2	13.3	6.50	3.73	2.52	1.69	1.03	0.54	0.15	0.02	0.00	
30	248	217	176	131	88.2	52.8	28.9	15.9	8.84	5.20	3.44	2.33	1.53	0.94	0.50	0.13	0.03	0.00	
40	78.8	67.9	54.5	40.6	28.7	19.8	13.2	8.64	5.73	3.99	2.79	1.90	1.24	0.80	0.41	0.10	0.04	0.00	
50	23.0	20.5	17.5	14.3	11.3	8.64	6.55	4.97	3.72	2.72	1.95	1.37	0.97	0.62	0.30	0.11	0.05	0.00	
60	8.17	7.48	6.66	5.80	4.93	4.11	3.33	2.65	2.06	1.62	1.28	0.97	0.69	0.43	0.21	0.12	0.05	0.00	
70	2.87	2.70	2.51	2.30	2.09	1.87	1.66	1.44	1.23	1.02	0.82	0.62	0.41	0.28	0.19	0.11	0.05	0.00	
80	1.60	1.50	1.39	1.28	1.16	1.04	0.91	0.79	0.69	0.58	0.49	0.40	0.31	0.24	0.17	0.10	0.05	0.00	
90	0.77	0.72	0.68	0.63	0.59	0.54	0.50	0.45	0.41	0.36	0.32	0.27	0.23	0.18	0.14	0.09	0.05	0.00	
100	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.20	0.19	0.18	0.17	0.15	0.13	0.11	0.08	0.04	0.00	
110	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.07	0.08	0.09	0.09	0.09	0.08	0.06	0.04	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	0.03	0.04	0.05	0.06	0.05	0.03	0.00	
130	0.05	0.09	0.12	0.14	0.12	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.03	0.00	
140	0.80	0.81	0.77	0.69	0.56	0.42	0.31	0.21	0.09	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.00	
150	2.21	2.17	2.06	1.84	1.57	1.22	0.92	0.59	0.37	0.18	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	
160	3.46	3.46	3.36	3.08	2.68	2.19	1.67	1.18	0.72	0.39	0.12	0.00	0.00	0.00	0.01	0.01	0.01	0.00	
170	4.49	4.48	4.30	4.01	3.57	3.00	2.35	1.66	1.08	0.58	0.26	0.00	0.00	0.00	0.00	0.01	0.01	0.00	
180	5.50	5.26	4.99	4.60	4.12	3.50	2.73	1.99	1.33	0.75	0.30	0.00	0.00	0.00	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:2025-02-26

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: