

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

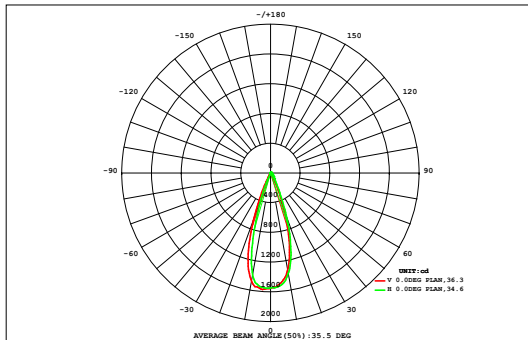
Maximum Intensity		2736.1 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	53.2V x 52.9H
	At 50% of Imax	34.6V x 36.3H
	At 90% of Imax	19.4V x 19.5H
Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	896.9 lumens per klm.
	To 50% of Imax	632.9 lumens per klm.
	To 90% of Imax	230.4 lumens per klm.
	Upward LOR	1.5 %
	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:2026-01-24

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:12.14V I:0.6779A P:7.538W PF:0.9158 Freq:59.99Hz Lamp Flux:574.029x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:8W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Downlight Shroud



DATA OF LAMP		Eff:76.15lm/W	
MODEL	D5A2-8W-27K-BZ	Imax(cd)	1571
NOMINAL POWER(W)	8	AVAILABILITY(%)	89.6
RATED VOLTAGE(V)	12	Avai. FLUX(lm)	514.3
NOMINAL FLUX(lm)	574.029	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	574.0
TEST VOLTAGE(V)	12	θ @50%(H,V)	36,35DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.02	0.04	0.08	0.13	0.19	0.26	0.32	0.37	0.39	0.39	0.36	0.32	0.26	0.19	0.13	0.08	0.04	0.02	3.59	0.00
45	0.02	0.04	0.08	0.13	0.19	0.26	0.32	0.37	0.39	0.39	0.36	0.32	0.26	0.19	0.13	0.08	0.04	0.02	3.59	0.00
40	0.03	0.06	0.11	0.18	0.28	0.39	0.49	0.56	0.59	0.58	0.55	0.48	0.39	0.28	0.18	0.11	0.06	0.03	5.34	0.00
35	0.04	0.07	0.14	0.25	0.41	0.59	0.73	0.84	0.90	0.89	0.82	0.71	0.56	0.40	0.25	0.14	0.07	0.04	7.87	0.00
30	0.04	0.09	0.18	0.34	0.59	0.89	1.19	1.48	1.67	1.64	1.41	1.12	0.83	0.56	0.33	0.18	0.09	0.04	12.7	6.72
25	0.04	0.10	0.22	0.46	0.89	1.50	2.31	3.08	3.54	3.45	2.89	2.09	1.34	0.80	0.43	0.22	0.10	0.05	23.5	20.0
20	0.04	0.11	0.26	0.62	1.39	2.66	4.26	5.70	6.48	6.32	5.31	3.80	2.31	1.20	0.56	0.25	0.11	0.05	41.4	38.8
15	0.04	0.11	0.29	0.81	2.11	4.25	6.69	8.53	9.36	9.18	7.98	5.92	3.61	1.78	0.70	0.27	0.11	0.04	61.8	59.6
10	0.04	0.10	0.29	0.97	2.84	5.79	8.72	10.5	11.1	10.9	9.82	7.68	4.85	2.35	0.83	0.27	0.10	0.04	77.2	75.4
5	0.03	0.08	0.26	1.00	3.19	6.66	9.80	11.4	11.8	11.5	10.6	8.59	5.53	2.60	0.84	0.24	0.08	0.03	84.2	82.5
0	0.02	0.06	0.19	0.86	2.96	6.50	9.84	11.5	11.9	11.6	10.7	8.54	5.35	2.37	0.72	0.19	0.06	0.02	83.3	81.8
-5	0.01	0.03	0.12	0.56	2.09	5.09	8.50	10.7	11.4	11.1	9.78	7.31	4.17	1.71	0.50	0.11	0.03	0.01	73.1	71.6
-10	0.01	0.02	0.05	0.26	1.15	3.02	5.62	7.89	8.92	8.64	7.13	4.81	2.51	0.97	0.23	0.05	0.02	0.01	51.3	49.8
-15	0.00	0.01	0.02	0.07	0.39	1.30	2.66	4.00	4.74	4.58	3.61	2.29	1.07	0.30	0.05	0.02	0.01	0.01	25.1	23.4
-20	0.00	0.00	0.01	0.01	0.04	0.23	0.69	1.28	1.62	1.55	1.12	0.54	0.15	0.03	0.01	0.01	0.00	0.00	7.28	4.63
-25	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.06	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)	10	15	20	25	30	35	40	45				
Φ t	0.38	0.86	2.20	6.52	18.5	39.1	61.8	77.9	84.4	82.4	72.1	54.2	32.9	15.6	5.77	2.12	0.88	0.39	558	---
Φ a	0.00	0.00	0.00	1.81	15.2	36.3	59.3	75.5	82.1	80.0	69.7	51.6	30.0	11.9	0.75	0.00	0.00	0.00	---	514

one-half-peak spread: U:14.2,D:16.5 , L:11.1,R:18.4

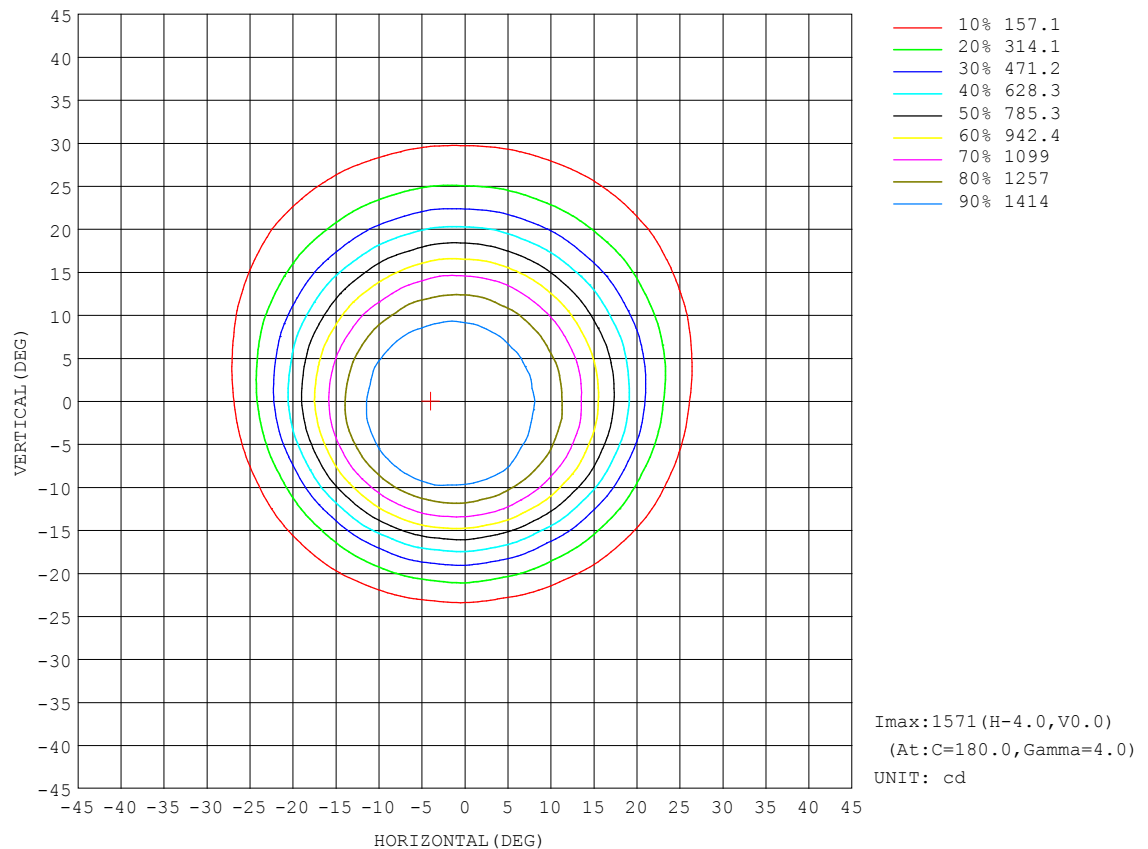
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

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.:8W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Downlight Shroud

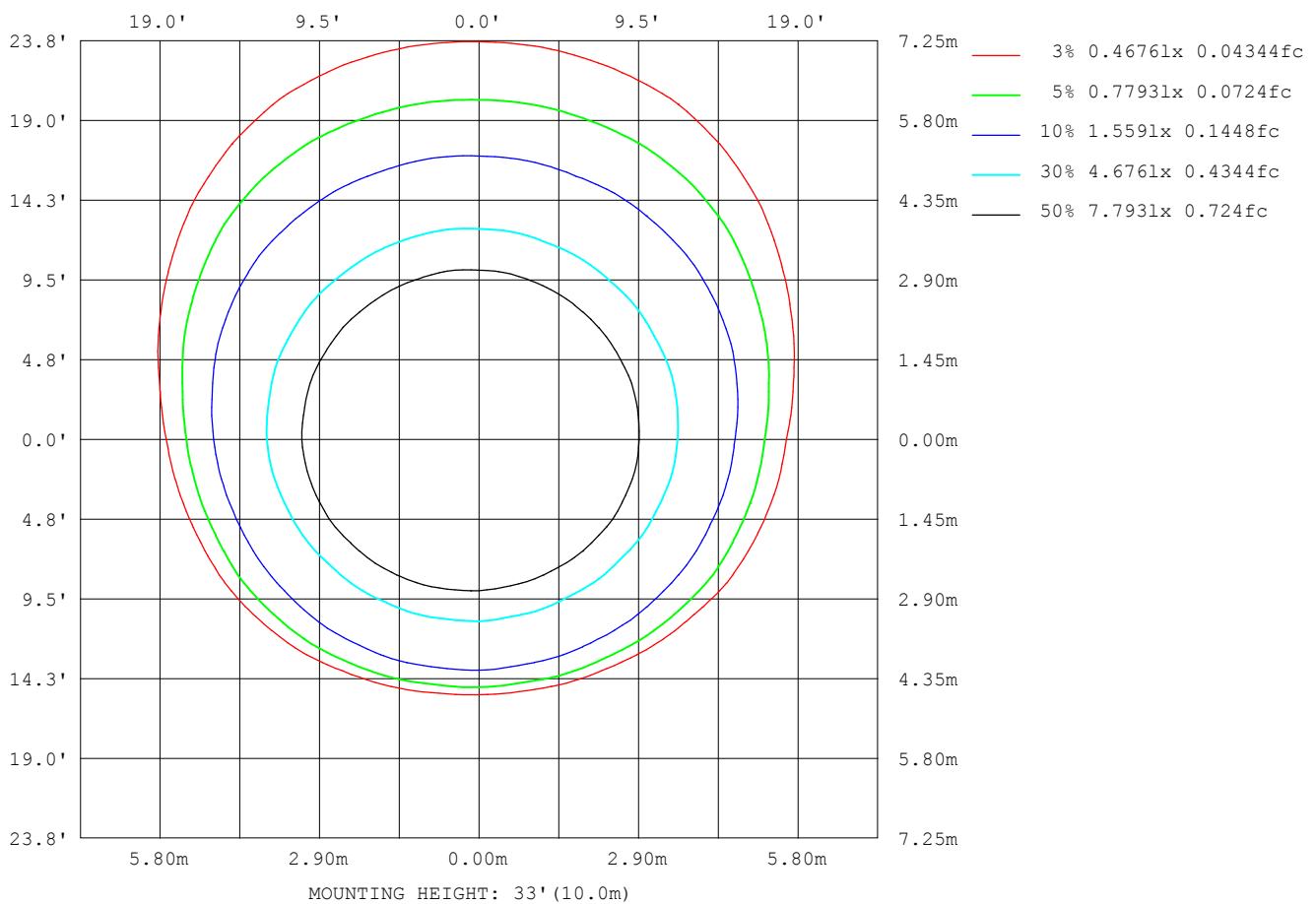


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Operators:ADMIN
Test Date:2026-01-24

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Remarks:

ISOLUX DIAGRAM

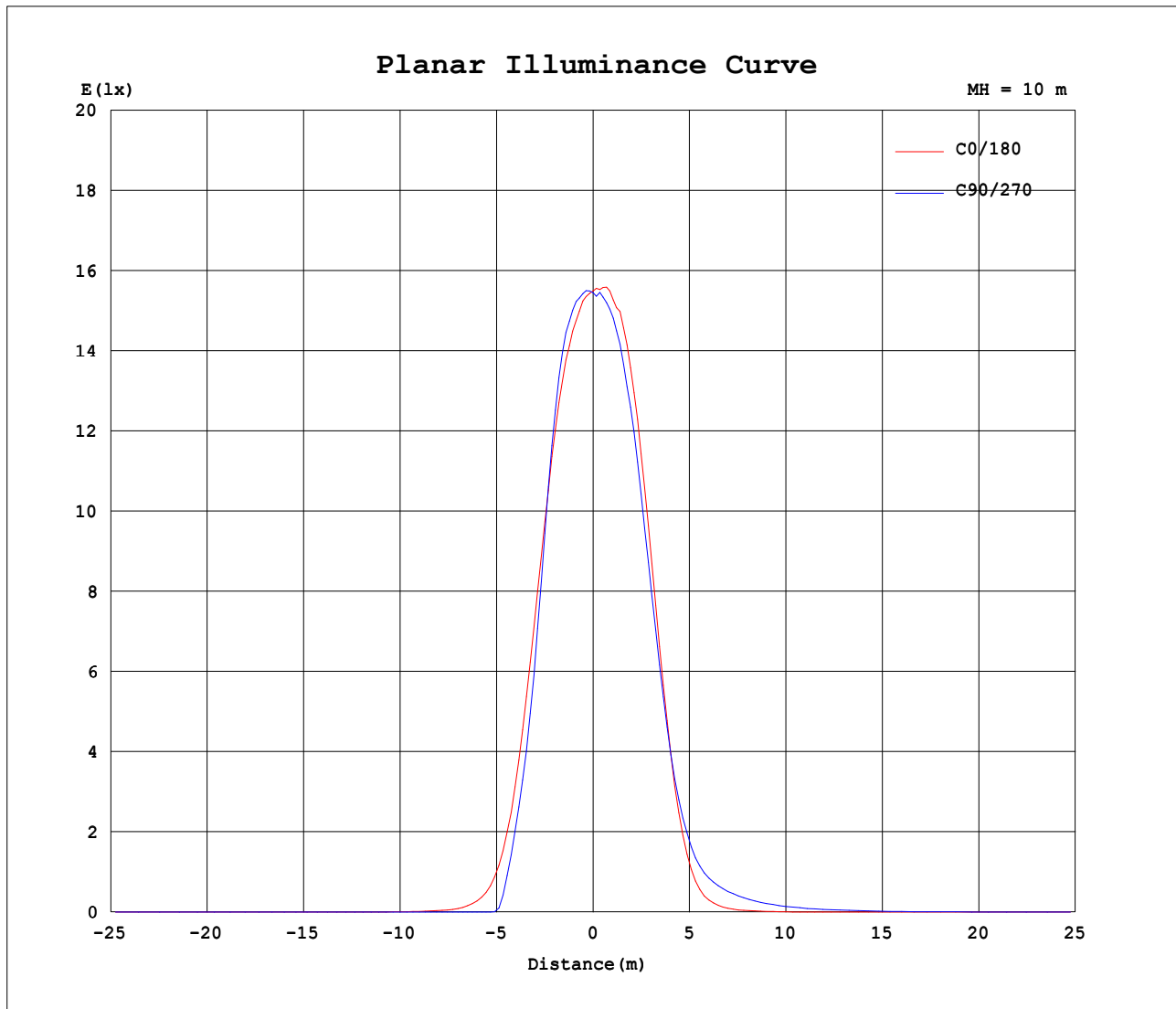
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Test Date:2026-01-24

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Remarks:

Planar Illuminance Curve

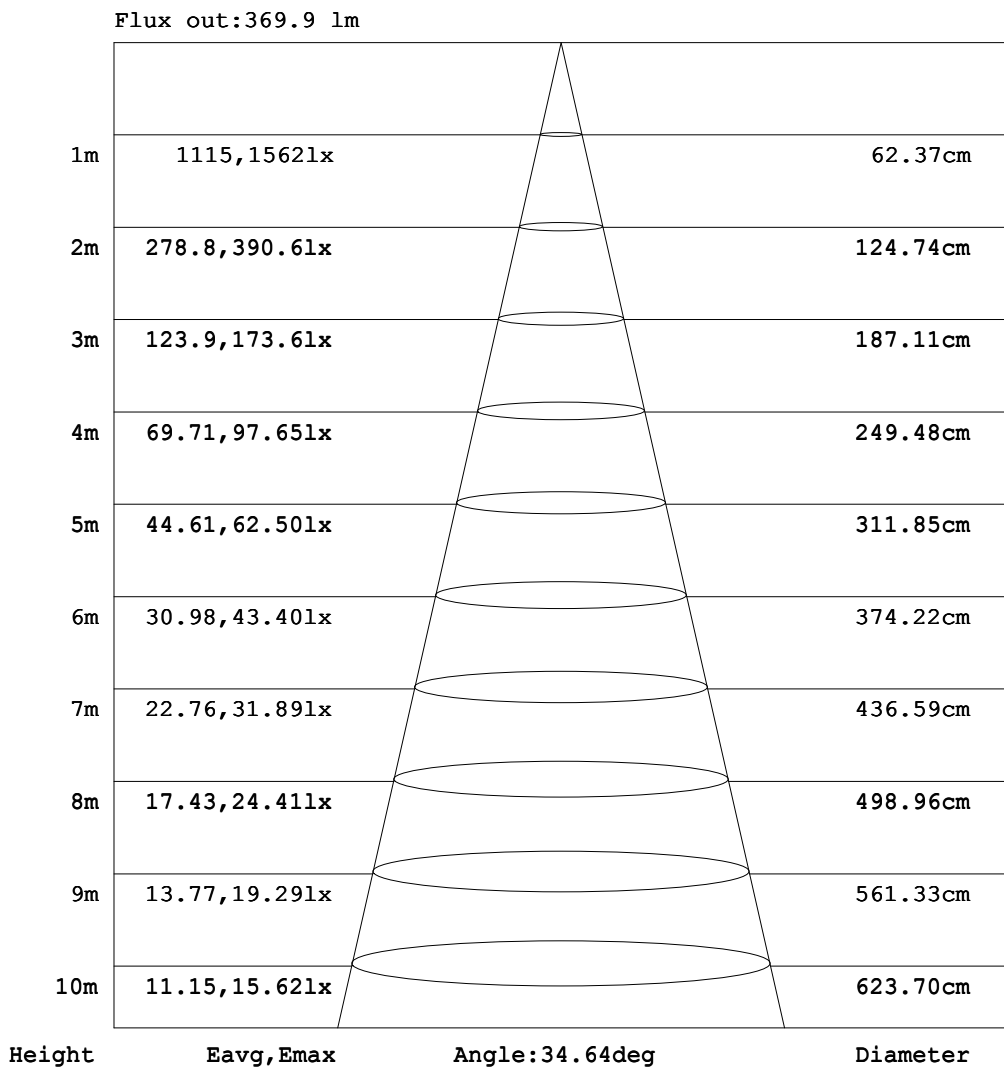


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AAI Figure

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NAME: LED LANDSCAPE LIGHT	TYPE:Aluminum Spot Light	WEIGHT:
SPEC.:8W 2700K 40°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Downlight 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
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Temperature:25.3DEG
Operators:ADMIN
Test Date:2026-01-24

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.352
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Test Distance:13.563m [K=1.0000]
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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	0.00	0.00	0.19	0.76	1.68	2.94	4.28	5.64	6.77	7.65	8.32	8.62
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.31	0.98	1.91	3.11	4.50	5.90	7.25	8.21	8.72	8.88
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.71	1.41	2.38	3.48	4.67	5.83	6.84	7.60	8.10
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.35	0.79	1.36	2.08	2.93	3.71	4.41	5.02	5.40
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.27	0.55	0.91	1.31	1.70	2.13	2.44	2.66	2.79
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.26	0.34	0.51	0.67	0.76	0.85	0.90
-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	0.01	0.08	0.13	0.14	0.16	0.19
-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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.13	0.12	0.17	0.23	0.25	0.21	0.20	0.16	0.08	0.09
-20	0.00	0.00	0.00	0.00	0.05	0.03	0.16	0.30	0.45	0.61	0.77	0.99	1.44	6.10	40.3	144	271	364	398
-10	0.00	0.00	0.00	0.00	0.11	0.19	0.41	0.59	0.86	1.17	2.30	6.43	23.5	116	365	774	1156	1367	1396
0	0.00	0.00	0.00	0.00	0.16	0.35	0.57	0.90	1.24	2.56	6.62	17.4	62.8	257	682	1175	1482	1567	1550
10	0.00	0.00	0.03	0.08	0.29	0.51	0.80	1.17	1.99	4.59	10.4	26.5	73.4	221	510	888	1194	1353	1372
20	0.00	0.01	0.05	0.16	0.38	0.62	0.94	1.38	2.50	5.41	11.2	25.2	52.6	111	207	343	500	618	648
30	0.00	0.01	0.07	0.20	0.41	0.65	0.96	1.37	2.37	4.77	9.06	18.1	33.3	55.4	83.4	111	132	148	151
40	0.00	0.01	0.07	0.21	0.42	0.67	0.92	1.31	1.99	3.43	6.17	10.5	17.8	27.4	38.8	49.0	57.1	61.5	62.4
50	0.00	0.00	0.07	0.21	0.38	0.60	0.89	1.19	1.59	2.23	3.45	5.43	8.15	12.1	16.4	20.7	23.9	25.9	26.6
60	0.00	0.00	0.05	0.17	0.37	0.52	0.78	1.03	1.29	1.61	2.02	2.61	3.50	4.60	5.85	7.05	8.23	8.96	9.32
70	0.00	0.00	0.01	0.15	0.28	0.47	0.66	0.85	1.03	1.24	1.50	1.74	1.96	2.16	2.43	2.68	2.92	3.05	3.13
80	0.00	0.00	0.00	0.09	0.21	0.39	0.54	0.67	0.79	0.95	1.12	1.25	1.37	1.49	1.64	1.71	1.78	1.85	1.90
90	0.00	0.00	0.00	0.08	0.16	0.28	0.39	0.49	0.59	0.72	0.84	0.93	1.01	1.09	1.17	1.20	1.22	1.28	1.33
100	0.00	0.00	0.00	0.03	0.03	0.14	0.27	0.35	0.43	0.52	0.59	0.65	0.69	0.74	0.82	0.86	0.90	0.91	0.93
110	0.00	0.00	0.00	0.00	0.00	0.07	0.13	0.18	0.24	0.26	0.34	0.39	0.43	0.47	0.51	0.53	0.53	0.55	0.59
120	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.03	0.08	0.11	0.12	0.19	0.18	0.19	0.25	0.26	0.26	0.28	0.31
130	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	0.00	0.03	0.03	0.01	0.03	0.07
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	0.00	0.00	0.02	0.12	0.21	0.31	0.30
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.64	1.14	1.64	2.06	2.39	2.50
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.55	1.27	2.18	3.11	3.99	4.75	5.24	5.45
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.47	1.27	2.36	3.59	4.84	5.90	6.68	7.15	7.33
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.76	1.68	2.94	4.28	5.64	6.77	7.65	8.32	8.60

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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	8.58	8.42	8.28	7.66	6.56	5.18	3.68	2.39	1.22	0.44	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-170	8.83	8.69	8.31	7.47	6.26	4.88	3.50	2.23	1.18	0.45	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-160	8.15	7.74	7.05	6.11	4.99	3.84	2.68	1.64	0.82	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-150	5.49	5.19	4.62	3.94	3.17	2.33	1.56	0.93	0.42	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-140	2.70	2.53	2.25	1.84	1.43	1.03	0.61	0.31	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	0.85	0.80	0.70	0.54	0.39	0.26	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-120	0.15	0.12	0.12	0.08	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	
-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	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-30	0.10	0.11	0.20	0.26	0.28	0.31	0.26	0.20	0.14	0.12	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
-20	341	237	115	27.1	4.66	1.51	1.17	0.95	0.75	0.53	0.34	0.17	0.04	0.06	0.02	0.00	0.00	0.00	
-10	1282	1018	645	300	100	22.4	5.98	2.35	1.41	1.04	0.74	0.48	0.26	0.15	0.04	0.00	0.00	0.00	
0	1492	1330	987	549	206	57.7	16.9	6.50	2.71	1.58	1.13	0.78	0.49	0.25	0.07	0.00	0.00	0.00	
10	1295	1087	760	426	186	66.0	26.3	10.8	4.75	2.28	1.44	0.99	0.65	0.37	0.14	0.04	0.00	0.00	
20	590	459	306	181	100.0	49.8	25.2	11.6	5.61	2.72	1.62	1.11	0.75	0.45	0.21	0.06	0.01	0.00	
30	145	127	106	79.8	53.6	32.9	18.2	9.37	4.95	2.59	1.60	1.15	0.78	0.49	0.24	0.08	0.01	0.00	
40	61.1	56.0	48.3	38.4	27.4	18.1	10.7	6.32	3.61	2.19	1.54	1.12	0.77	0.48	0.24	0.08	0.01	0.00	
50	26.0	24.1	20.8	16.7	12.3	8.38	5.57	3.62	2.43	1.81	1.40	1.02	0.71	0.47	0.23	0.07	0.00	0.00	
60	9.03	8.35	7.19	5.97	4.75	3.65	2.79	2.20	1.79	1.48	1.19	0.90	0.66	0.40	0.21	0.04	0.00	0.00	
70	3.10	3.01	2.79	2.55	2.29	2.06	1.88	1.66	1.40	1.16	0.97	0.77	0.56	0.33	0.15	0.01	0.00	0.00	
80	1.86	1.80	1.77	1.73	1.59	1.46	1.34	1.23	1.07	0.92	0.78	0.64	0.44	0.27	0.12	0.00	0.00	0.00	
90	1.30	1.27	1.26	1.24	1.15	1.06	1.00	0.94	0.82	0.70	0.58	0.47	0.30	0.13	0.07	0.00	0.00	0.00	
100	0.92	0.91	0.89	0.87	0.80	0.72	0.69	0.66	0.57	0.46	0.37	0.30	0.17	0.07	0.05	0.00	0.00	0.00	
110	0.59	0.59	0.57	0.55	0.49	0.44	0.43	0.39	0.33	0.26	0.20	0.16	0.08	0.00	0.00	0.00	0.00	0.00	
120	0.30	0.29	0.29	0.27	0.21	0.23	0.21	0.15	0.10	0.08	0.05	0.04	0.02	0.00	0.00	0.00	0.00	0.00	
130	0.03	0.02	0.04	0.04	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
140	0.32	0.26	0.12	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	0.00	0.00	
150	2.44	2.17	1.80	1.29	0.76	0.34	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	5.35	4.96	4.28	3.43	2.49	1.50	0.71	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	7.30	6.94	6.26	5.27	4.04	2.74	1.55	0.62	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180	8.58	8.42	8.28	7.66	6.56	5.18	3.68	2.39	1.22	0.44	0.01	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:2026-01-24

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: