

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

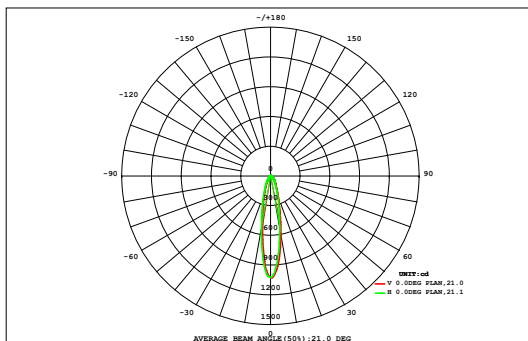
Maximum Intensity		3207.6 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	57.8V x 57.6H
	At 50% of Imax	21.1V x 21.0H
	At 90% of Imax	7.5V x 7.5H
Beam Flux	Total	1000.5 lumens per klm.
	To 10% of Imax	688.3 lumens per klm.
	To 50% of Imax	231.2 lumens per klm.
	To 90% of Imax	34.3 lumens per klm.
	Upward LOR	1.1 %
	Downward LOR	98.9 %
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:2025-12-15

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:12.17V I:0.5325A P:4.145W PF:0.6395 Freq:59.98Hz Lamp Flux:321.656x1 lm		
NAME: LED LANDSCAPE LIGHT	TYPE:Brass Modules Micro	WEIGHT:
SPEC.:4.5W 2700K 15°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Non Shroud



DATA OF LAMP		Eff:77.59lm/W	
MODEL	M7B1-4.5W-15-A	Imax(cd)	1032
NOMINAL POWER(W)	4.5	AVAILABILITY(%)	69.0
RATED VOLTAGE(V)	12	Avai. FLUX(lm)	221.8
NOMINAL FLUX(lm)	321.656	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	321.7
TEST VOLTAGE(V)	12	θ @50%(H,V)	21,21DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.06	0.09	0.11	0.14	0.17	0.21	0.24	0.27	0.29	0.30	0.29	0.27	0.25	0.21	0.18	0.14	0.11	0.08	3.42	0.00
45	0.06	0.09	0.11	0.14	0.17	0.21	0.24	0.27	0.29	0.30	0.29	0.27	0.25	0.21	0.18	0.14	0.11	0.08	3.42	0.00
40	0.07	0.10	0.14	0.18	0.23	0.29	0.34	0.39	0.42	0.43	0.42	0.39	0.35	0.29	0.24	0.19	0.14	0.11	4.74	0.00
35	0.09	0.12	0.17	0.23	0.31	0.39	0.48	0.55	0.60	0.62	0.61	0.56	0.49	0.40	0.32	0.24	0.18	0.13	6.50	0.00
30	0.10	0.15	0.21	0.30	0.40	0.53	0.66	0.78	0.87	0.89	0.86	0.78	0.66	0.54	0.42	0.31	0.22	0.16	8.84	3.11
25	0.12	0.17	0.26	0.37	0.52	0.70	0.92	1.12	1.28	1.33	1.24	1.08	0.88	0.70	0.53	0.38	0.27	0.18	12.0	8.23
20	0.13	0.20	0.30	0.45	0.65	0.93	1.29	1.68	1.99	2.06	1.86	1.52	1.17	0.88	0.64	0.46	0.32	0.21	16.7	13.6
15	0.14	0.23	0.35	0.53	0.79	1.20	1.79	2.48	3.11	3.26	2.82	2.13	1.52	1.07	0.76	0.53	0.36	0.23	23.3	20.6
10	0.15	0.24	0.38	0.59	0.92	1.47	2.31	3.53	4.86	5.11	4.12	2.85	1.87	1.25	0.85	0.58	0.39	0.25	31.7	29.3
5	0.16	0.25	0.40	0.62	0.99	1.64	2.67	4.49	6.69	6.98	5.36	3.44	2.12	1.35	0.90	0.61	0.40	0.26	39.3	36.9
0	0.16	0.25	0.40	0.62	0.99	1.63	2.65	4.44	6.72	7.15	5.48	3.48	2.13	1.36	0.91	0.61	0.41	0.26	39.6	37.2
-5	0.15	0.24	0.38	0.58	0.90	1.44	2.26	3.45	4.80	5.20	4.23	2.88	1.87	1.25	0.85	0.59	0.39	0.25	31.7	29.2
-10	0.14	0.22	0.34	0.52	0.78	1.16	1.72	2.40	3.02	3.19	2.78	2.11	1.50	1.07	0.76	0.53	0.36	0.24	22.8	20.1
-15	0.13	0.20	0.30	0.44	0.63	0.89	1.23	1.61	1.89	1.97	1.80	1.49	1.16	0.88	0.65	0.46	0.32	0.21	16.3	13.1
-20	0.11	0.17	0.25	0.36	0.50	0.68	0.88	1.07	1.22	1.27	1.21	1.06	0.88	0.70	0.53	0.39	0.27	0.18	11.7	7.87
-25	0.10	0.14	0.20	0.29	0.39	0.51	0.63	0.75	0.83	0.86	0.84	0.76	0.66	0.54	0.42	0.31	0.23	0.16	8.62	2.64
-30	0.08	0.12	0.16	0.22	0.29	0.37	0.46	0.53	0.58	0.60	0.59	0.55	0.49	0.41	0.32	0.25	0.18	0.13	6.34	0.00
-35	0.07	0.10	0.13	0.17	0.22	0.27	0.32	0.37	0.40	0.42	0.41	0.39	0.35	0.30	0.24	0.19	0.14	0.11	4.60	0.00
-40	0.06	0.08	0.10	0.13	0.16	0.19	0.23	0.26	0.28	0.29	0.29	0.27	0.25	0.22	0.18	0.15	0.12	0.09	3.32	0.00
-45	0.06	0.08	0.10	0.13	0.16	0.19	0.23	0.26	0.28	0.29	0.29	0.27	0.25	0.22	0.18	0.15	0.12	0.09	3.32	0.00
-45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL (DEG) 10 15 20 25 30 35 40 45																				
Φ t	2.05	3.08	4.58	6.72	9.85	14.5	21.1	30.2	39.9	41.9	35.2	26.0	18.6	13.4	9.71	6.92	4.80	3.25	292	---
Φ a	0.00	0.00	0.00	0.35	5.13	10.6	17.7	27.0	36.8	39.0	32.2	22.9	15.2	9.59	5.04	0.45	0.00	0.00	---	222

one-half-peak spread: U:10.6,D:10.7 , L:10.3,R:10.9

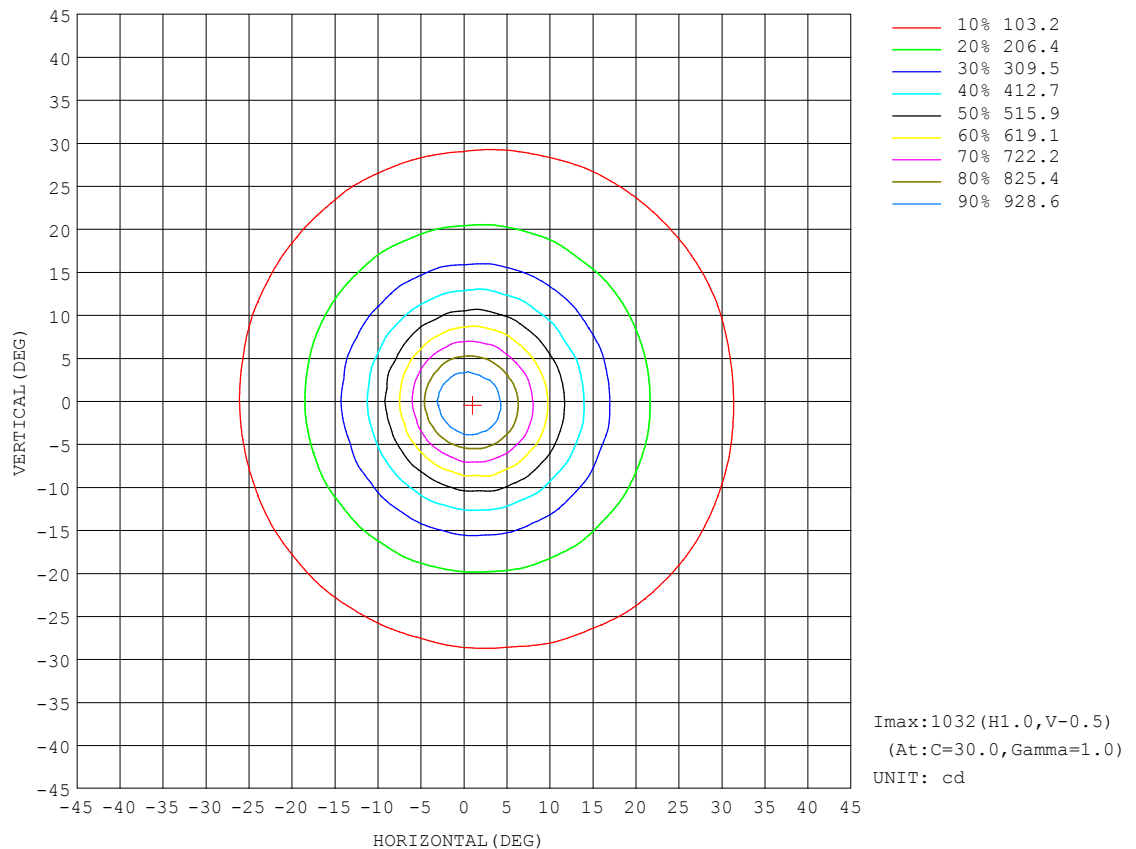
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-12-15

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

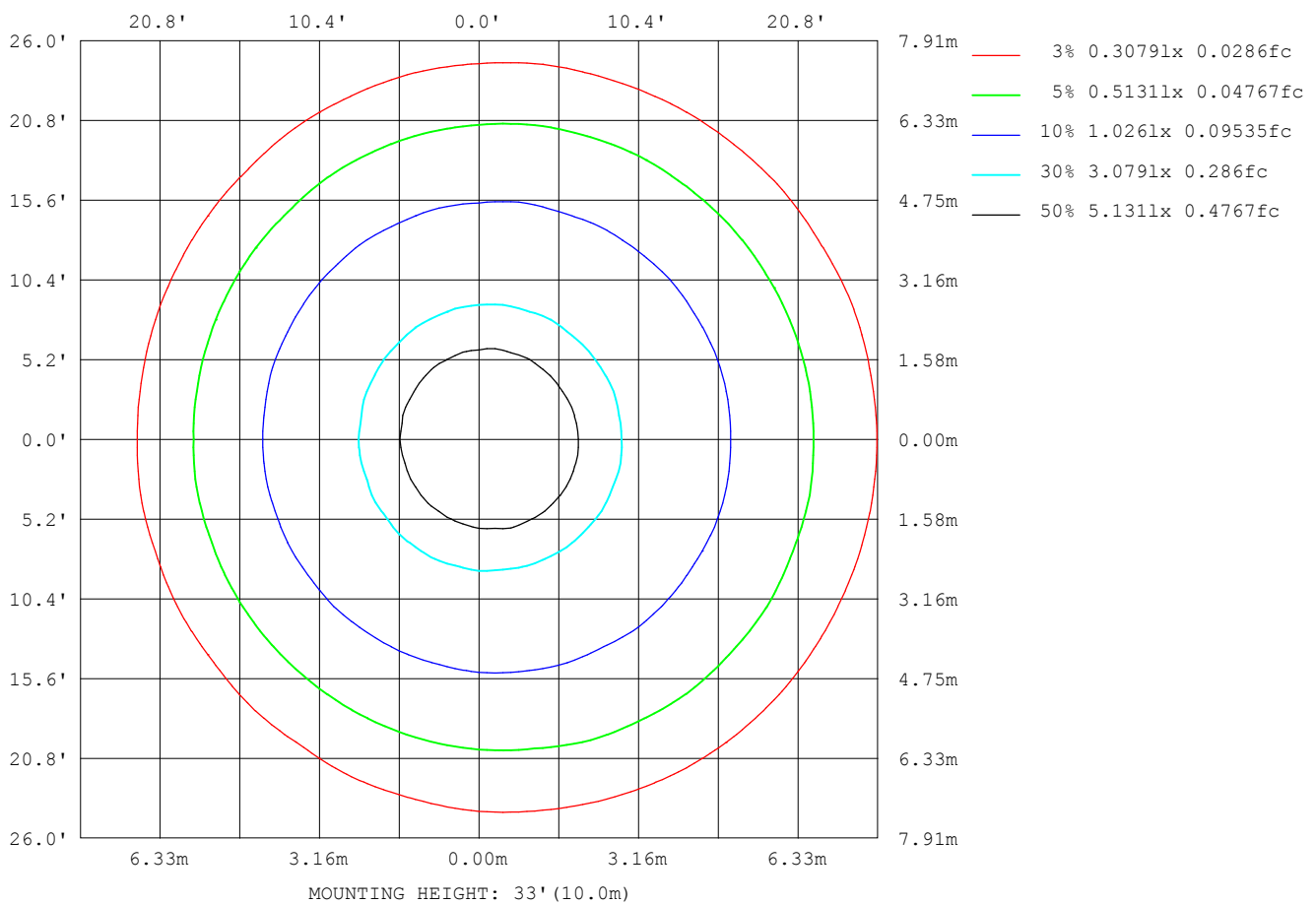


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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-12-15

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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:

ISOLUX DIAGRAM

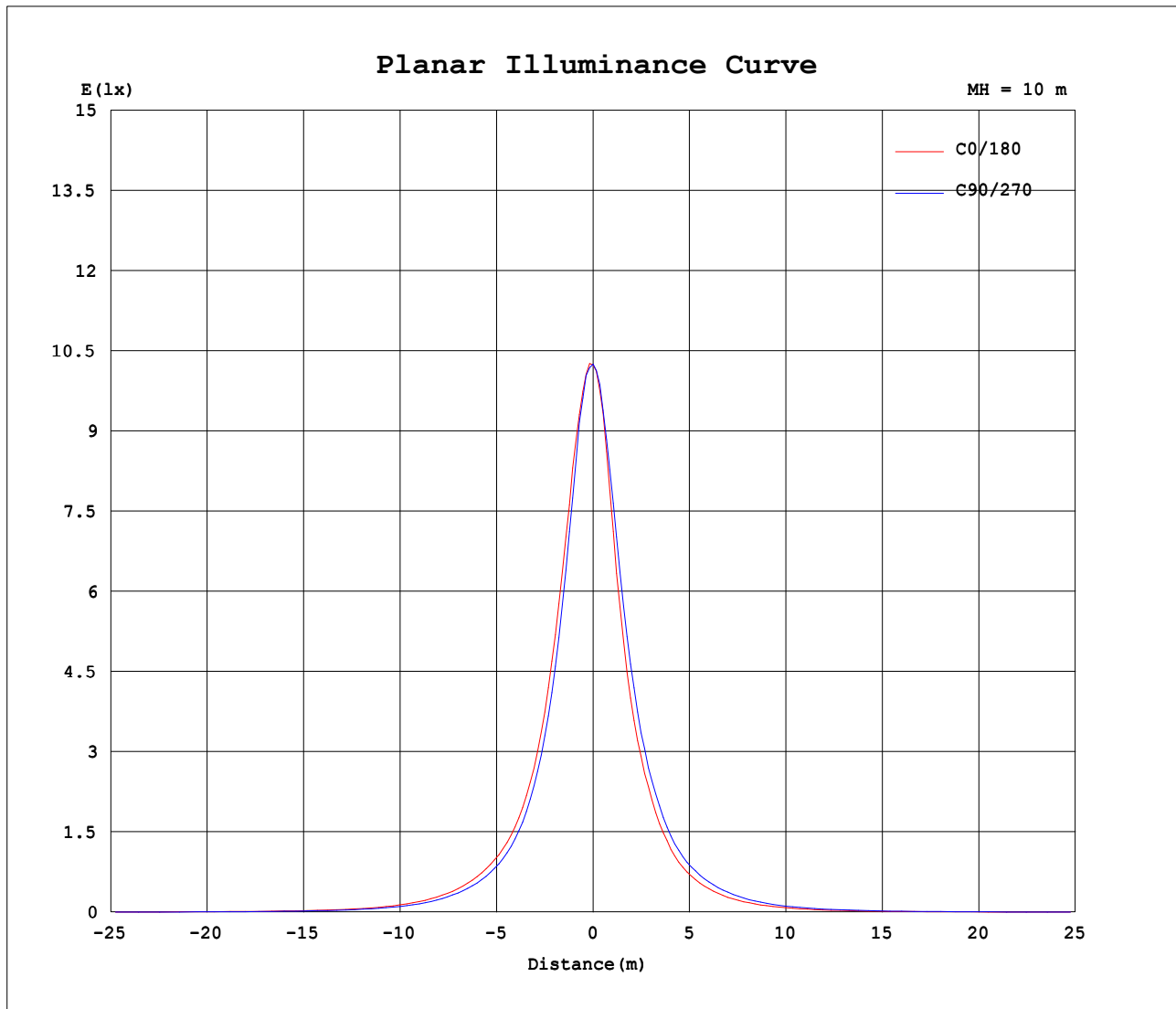
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Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-12-15

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Test Distance:13.563m [K=1.0000]
Remarks:

Planar Illuminance Curve

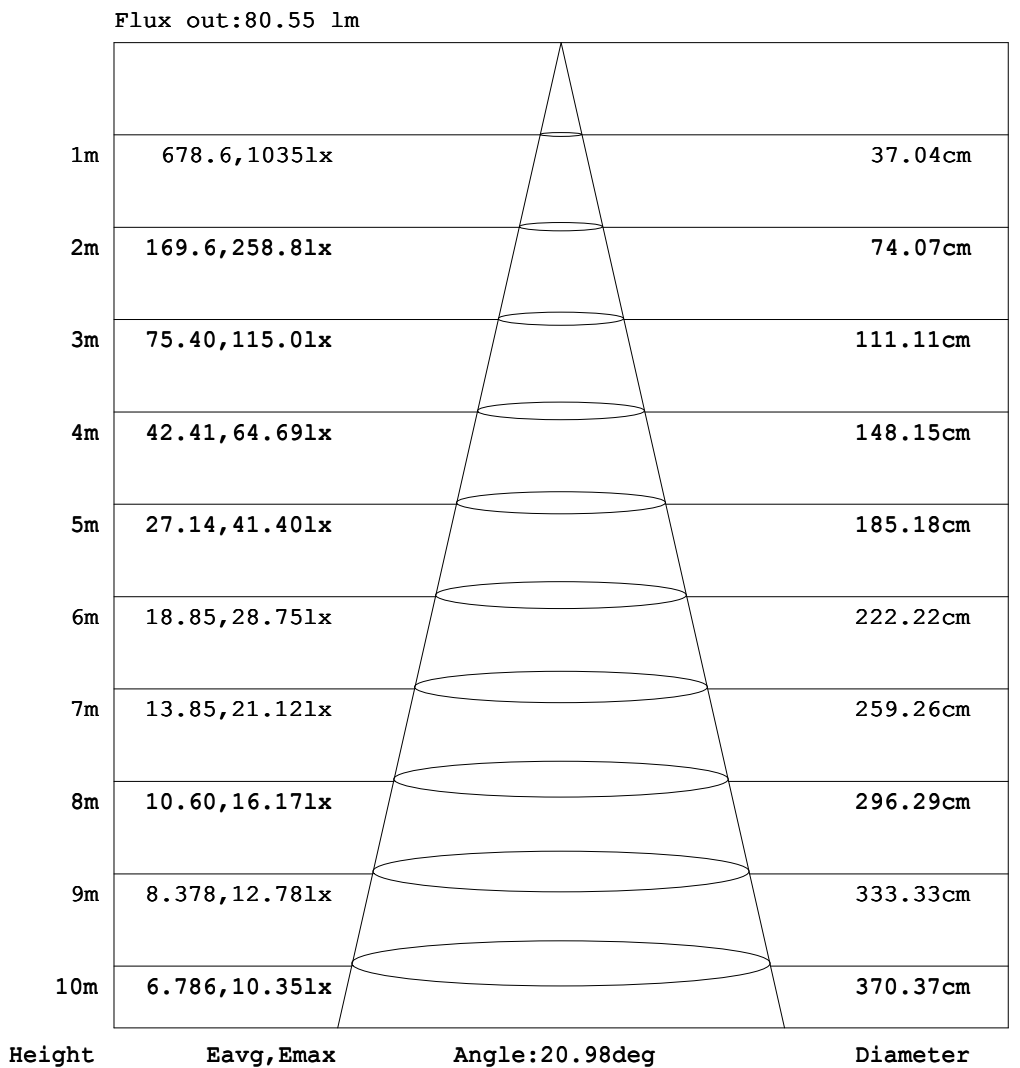


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AAI Figure

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SPEC.:4.5W 2700K 15°LENS	DIM.:	SERIAL No.:1
MFR.: Lumien Enterprise,Inc.	SUR.:	Shielding Angle:Non Shroud



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Temperature:25.3DEG
Operators:ADMIN
Test Date:2025-12-15

V(B) Range:-180 - 180DEG
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	0.07	0.20	0.39	0.67	1.06	1.61	2.26	2.85	3.25	3.48	3.58	3.58
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.41	0.72	1.13	1.65	2.24	2.80	3.22	3.50	3.61	3.66
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.33	0.55	0.83	1.25	1.72	2.21	2.64	2.98	3.15	3.25
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.19	0.35	0.54	0.76	1.01	1.35	1.65	1.94	2.15	2.23
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.18	0.29	0.37	0.53	0.65	0.77	0.91	1.01	1.06	1.07
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.20	0.25	0.30	0.35	0.35	0.39	0.38
-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	0.03	0.04	0.02	0.03	0.06
-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	0.02	0.10	0.23	0.35	0.46	0.55	0.66	0.79	0.89	0.97	1.09	1.23	1.31	1.37	1.45	1.53	1.55	1.55
-70	0.00	0.10	0.33	0.58	0.86	1.12	1.37	1.69	2.03	2.32	2.60	2.92	3.22	3.51	3.79	4.03	4.24	4.40	4.49
-60	0.00	0.20	0.56	0.96	1.40	1.88	2.38	2.92	3.48	4.13	4.79	5.55	6.30	7.08	7.81	8.59	9.25	9.79	10.1
-50	0.00	0.30	0.79	1.34	1.99	2.71	3.46	4.40	5.47	6.76	8.18	9.73	11.4	13.2	15.2	17.1	18.8	20.2	21.3
-40	0.00	0.39	0.99	1.71	2.58	3.50	4.68	6.17	8.06	10.1	12.8	15.8	19.4	24.3	28.6	33.9	38.8	42.3	44.9
-30	0.00	0.47	1.17	2.04	3.08	4.28	5.93	8.11	10.7	14.2	18.7	24.7	32.3	42.3	53.7	66.3	77.5	87.2	93.7
-20	0.00	0.53	1.32	2.29	3.46	4.90	7.13	9.82	13.6	18.2	25.4	35.8	50.1	68.6	92.9	122	155	187	203
-10	0.00	0.57	1.42	2.44	3.72	5.46	7.88	11.0	15.6	21.9	31.8	46.3	67.3	97.8	146	219	320	446	538
0	0.00	0.58	1.46	2.49	3.83	5.63	8.19	11.5	16.2	23.5	34.6	50.7	75.1	113	179	288	470	798	1024
10	0.00	0.57	1.43	2.45	3.75	5.47	7.89	11.1	15.5	22.0	32.2	46.7	68.2	99.7	149	226	330	457	540
20	0.00	0.53	1.33	2.32	3.49	5.02	7.13	9.85	13.7	18.7	26.2	36.7	51.4	70.9	95.7	127	162	196	213
30	0.00	0.47	1.19	2.08	3.09	4.35	5.97	8.19	10.9	14.6	19.3	25.7	34.3	44.5	56.3	69.7	81.4	91.8	96.6
40	0.00	0.39	1.01	1.75	2.59	3.54	4.74	6.22	8.14	10.5	14.0	17.0	20.9	25.5	30.8	36.0	41.0	44.6	46.8
50	0.00	0.31	0.80	1.38	2.01	2.72	3.54	4.50	5.62	7.04	8.80	11.4	14.4	15.7	18.9	20.1	20.6	21.6	21.9
60	0.00	0.21	0.57	0.98	1.41	1.88	2.43	3.01	3.64	4.30	5.08	5.88	6.75	7.64	8.56	9.32	10.1	10.5	10.6
70	0.00	0.11	0.34	0.58	0.83	1.13	1.44	1.74	2.04	2.39	2.72	3.07	3.37	3.68	3.97	4.21	4.41	4.54	4.60
80	0.00	0.03	0.13	0.22	0.31	0.44	0.58	0.70	0.79	0.93	1.08	1.17	1.26	1.37	1.46	1.52	1.56	1.58	1.59
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
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
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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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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	3.67	3.60	3.40	3.08	2.60	1.98	1.36	0.84	0.44	0.25	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-170	3.56	3.49	3.28	2.93	2.43	1.83	1.23	0.78	0.45	0.22	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-160	3.18	3.00	2.74	2.32	1.86	1.37	0.92	0.55	0.31	0.16	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-150	2.15	2.01	1.73	1.43	1.09	0.76	0.52	0.34	0.19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-140	1.02	0.91	0.80	0.62	0.49	0.37	0.22	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	0.33	0.30	0.28	0.20	0.16	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	
-120	0.03	0.01	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	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	1.60	1.63	1.59	1.52	1.46	1.40	1.30	1.18	1.06	0.92	0.78	0.59	0.48	0.36	0.22	0.10	0.01	0.00	
-70	4.57	4.58	4.50	4.36	4.18	3.92	3.59	3.27	2.94	2.52	2.14	1.73	1.37	1.02	0.65	0.35	0.12	0.00	
-60	10.4	10.5	10.1	9.70	9.02	8.24	7.37	6.48	5.60	4.72	3.86	3.13	2.41	1.75	1.18	0.63	0.23	0.00	
-50	21.8	21.8	21.4	19.7	18.0	16.2	14.0	11.7	9.65	7.75	6.19	4.79	3.60	2.58	1.68	0.95	0.34	0.00	
-40	45.8	44.8	42.1	38.5	33.5	28.5	23.6	19.1	15.3	12.0	9.01	6.71	4.91	3.41	2.19	1.24	0.45	0.00	
-30	94.2	90.9	83.2	72.6	60.7	48.8	38.1	29.4	22.1	16.5	12.3	8.80	6.19	4.22	2.68	1.48	0.55	0.00	
-20	201	181	153	124	98.9	76.6	56.3	41.2	29.7	21.2	15.3	10.7	7.36	4.90	3.05	1.67	0.62	0.00	
-10	512	393	280	195	140	102	73.5	52.0	36.5	25.1	17.5	12.1	8.13	5.35	3.31	1.80	0.66	0.00	
0	895	605	375	236	160	113	80.3	56.1	38.9	26.4	18.3	12.6	8.41	5.52	3.42	1.85	0.68	0.00	
10	509	393	277	196	140	102	72.9	51.8	36.0	25.0	17.3	12.1	8.14	5.34	3.32	1.80	0.67	0.00	
20	210	188	155	125	98.4	75.0	56.2	41.2	29.8	21.3	15.2	10.8	7.32	4.87	3.08	1.69	0.62	0.00	
30	97.0	92.5	83.7	72.2	59.9	48.1	37.7	28.9	22.0	16.4	12.3	8.94	6.20	4.20	2.69	1.49	0.55	0.00	
40	47.2	45.4	42.4	38.2	32.7	27.6	22.9	18.7	15.0	11.9	9.15	6.75	4.91	3.41	2.22	1.23	0.46	0.00	
50	22.2	21.7	20.6	19.2	17.3	15.4	13.4	11.5	9.55	7.75	6.16	4.82	3.58	2.58	1.70	0.95	0.35	0.00	
60	10.7	10.5	10.0	9.58	8.88	8.08	7.21	6.33	5.50	4.67	3.87	3.13	2.39	1.75	1.17	0.66	0.24	0.00	
70	4.62	4.57	4.46	4.30	4.07	3.79	3.51	3.19	2.85	2.49	2.11	1.73	1.37	0.99	0.66	0.37	0.13	0.00	
80	1.57	1.54	1.52	1.48	1.40	1.30	1.23	1.14	1.02	0.87	0.75	0.65	0.49	0.37	0.24	0.12	0.02	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	
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	
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	
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	0.08	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	0.00	0.00	0.00	0.00	
140	0.49	0.42	0.33	0.28	0.15	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	
150	1.31	1.12	0.95	0.70	0.49	0.34	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	2.51	2.28	1.87	1.46	1.03	0.66	0.39	0.21	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	3.26	3.04	2.68	2.17	1.58	1.02	0.60	0.33	0.13	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180	3.67	3.60	3.40	3.08	2.60	1.98	1.36	0.84	0.44	0.25	0.03	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:2025-12-15

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: