

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730260

Luminaire Tested: **HBLED-LD5-12HE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-AI-UNV-L840
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11000.0 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

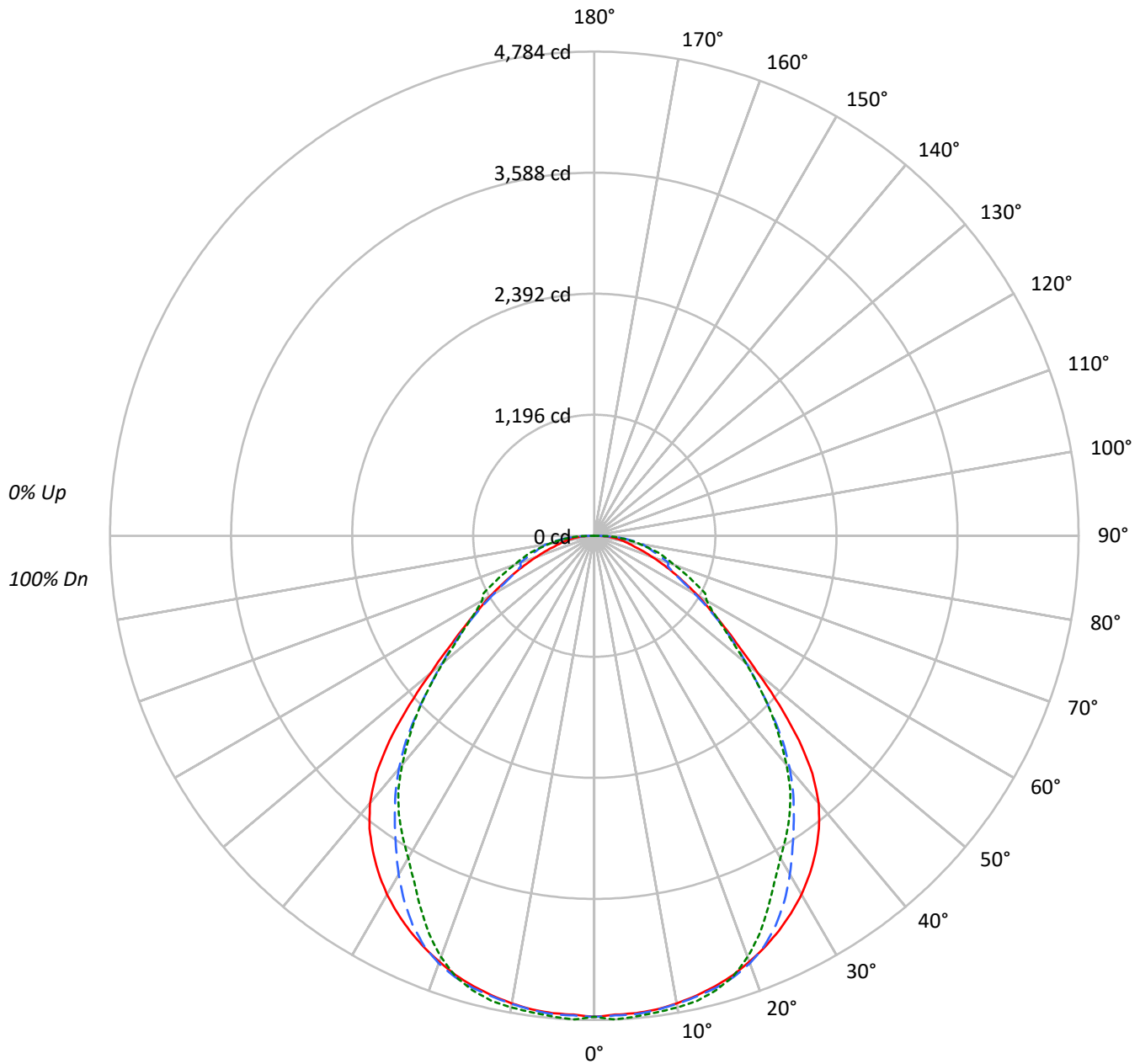
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730260

CATALOG NUMBER: HBLED-LD5-12HE-W-AI-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730260

CATALOG NUMBER: HBLED-LD5-12HE-W-AI-UNV-L840

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7673	7673	7673
5°	7673	7689	7727
10°	7692	7701	7758
15°	7703	7732	7770
20°	7696	7724	7610
25°	7676	7561	7232
30°	7631	7205	6853
35°	7516	6772	6630
40°	7265	6331	6227
45°	6530	5654	5633
50°	5296	4924	4891
55°	4398	4316	4314
60°	3808	3696	4132
65°	3300	3279	4165
70°	2845	3678	3971
75°	2551	3770	4139
80°	2652	4438	4153
85°	3010	5115	4746



TEST NUMBER: P730260

CATALOG NUMBER: HBLED-LD5-12HE-W-AI-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	4.1
10°-20°	1306.8	11.9
20°-30°	1940.9	17.6
30°-40°	2203.5	20.0
40°-50°	1969.8	17.9
50°-60°	1361.9	12.4
60°-70°	898.7	8.2
70°-80°	606.3	5.5
80°-90°	259.7	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3700.2	33.6
0°-40°	5903.6	53.7
0°-60°	9235.4	84.0
0°-90°	11000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4752	4752	4752	4752	4752	
5°	4734	4763	4744	4764	4767	451
15°	4609	4631	4626	4652	4648	1301
25°	4309	4350	4244	4118	4060	1985
35°	3813	3733	3436	3386	3364	2378
45°	2860	2618	2476	2495	2467	2175
55°	1562	1426	1533	1512	1533	1419
65°	864	767	858	1004	1090	862
75°	409	514	604	646	664	447
85°	162	226	276	278	256	169
90°	0	0	0	0	0	



TEST NUMBER: P730260

CATALOG NUMBER: HBLED-LD5-12HE-W-AI-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4752.4	4752.4	4752.4	4752.4	4752.4
2.5°	4736.2	4765.8	4743.7	4764.2	4784.1
5°	4734.0	4763.1	4744.3	4763.6	4767.4
7.5°	4720.6	4747.5	4725.4	4744.3	4748.6
10°	4691.5	4723.3	4697.4	4726.5	4731.9
12.5°	4653.9	4686.2	4663.5	4703.3	4705.5
15°	4608.6	4630.7	4625.9	4651.7	4648.5
17.5°	4551.6	4576.9	4573.1	4579.6	4564.5
20°	4479.0	4507.5	4495.6	4466.0	4428.9
22.5°	4400.9	4435.4	4388.6	4313.8	4261.5
25°	4308.9	4349.8	4244.4	4117.9	4059.7
27.5°	4207.2	4243.8	4068.4	3913.4	3853.1
30°	4093.1	4108.7	3864.4	3716.9	3676.0
32.5°	3961.3	3938.7	3646.4	3549.0	3525.4
35°	3813.3	3733.1	3435.5	3385.5	3363.9
37.5°	3646.4	3499.6	3227.3	3204.1	3181.5
40°	3446.8	3229.9	3003.9	2988.9	2954.4
42.5°	3189.1	2936.6	2755.8	2738.1	2707.4
45°	2859.7	2617.5	2476.0	2494.8	2466.8
47.5°	2480.8	2297.3	2207.5	2259.1	2207.5
50°	2108.4	1985.2	1960.5	2007.3	1947.0
52.5°	1803.3	1692.5	1743.6	1751.7	1715.6
55°	1562.2	1426.1	1533.2	1511.6	1532.6
57.5°	1352.4	1200.0	1331.9	1307.1	1379.3
60°	1179.1	1008.0	1144.6	1139.2	1279.7
62.5°	1009.0	872.3	982.1	1061.2	1233.9
65°	863.7	766.9	858.3	1003.6	1090.3
67.5°	724.3	687.7	785.1	865.9	960.6
70°	602.7	621.5	779.2	764.2	841.1
72.5°	500.5	564.5	687.7	690.4	744.8
75°	409.0	514.5	604.4	645.8	663.5
77.5°	340.1	466.6	545.7	560.2	543.0
80°	285.2	411.1	477.3	470.9	446.6
82.5°	230.3	311.6	376.2	382.1	353.5
85°	162.5	226.0	276.1	277.7	256.2
87.5°	87.2	139.4	167.4	172.2	159.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)