

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: P730231

Luminaire Tested: **HBLED-LD5-12HE-N-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CL-UNV-L850
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11470.0 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

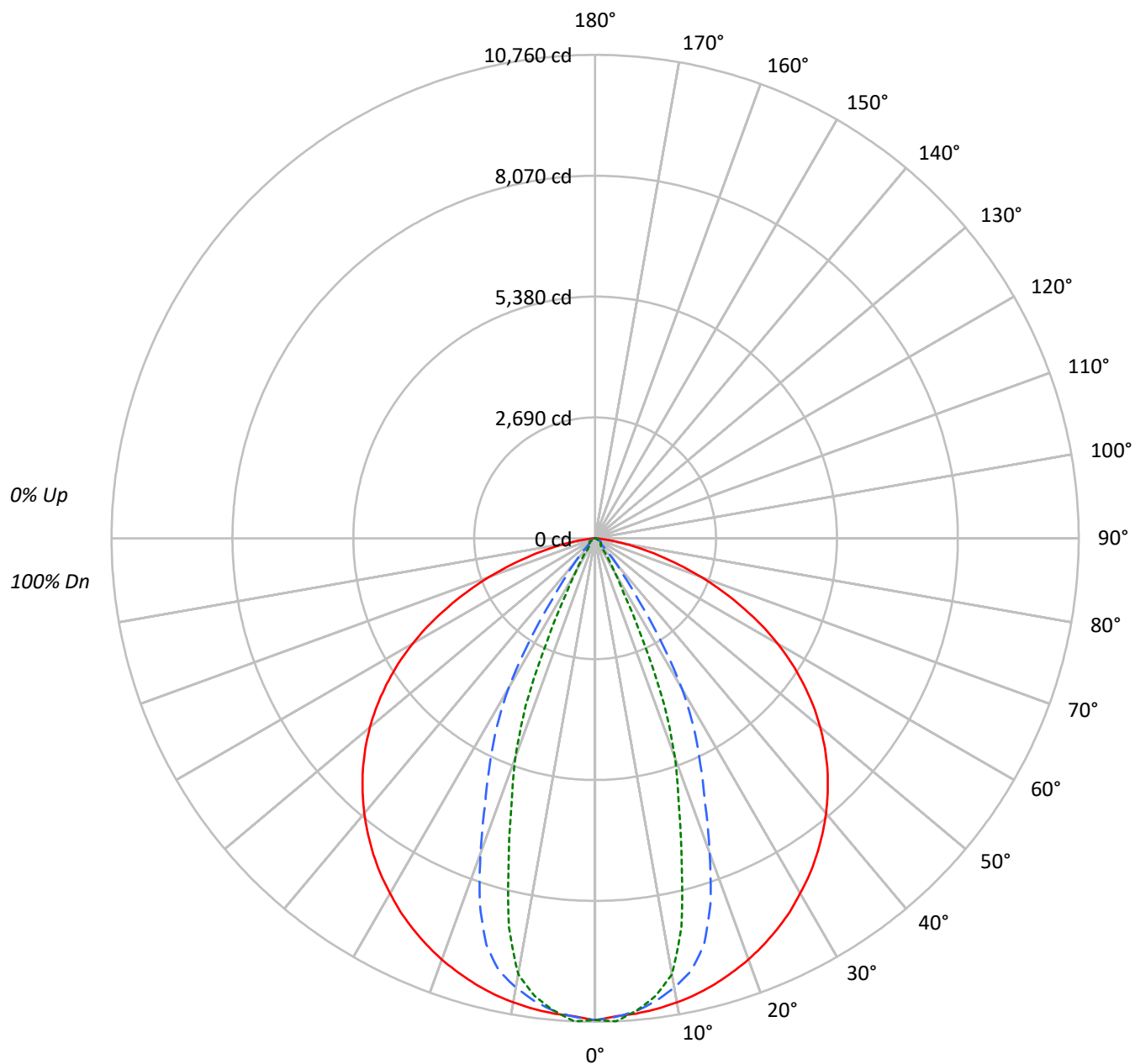
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730231

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730231

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-UNV-L850

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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17316	17316	17316
5°	17210	17120	17107
10°	17198	16647	16155
15°	17178	15654	12422
20°	17145	12810	8910
25°	17091	9870	4528
30°	17010	7203	1647
35°	16949	3308	573
40°	16845	1501	396
45°	16695	560	401
50°	16429	407	422
55°	15943	428	321
60°	15150	457	284
65°	13739	348	231
70°	11780	251	212
75°	9004	223	202
80°	5634	209	219
85°	1780	245	295



TEST NUMBER: P730231

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.5	8.7
10°-20°	2515.2	21.9
20°-30°	2739.2	23.9
30°-40°	2049.1	17.9
40°-50°	1473.3	12.8
50°-60°	904.8	7.9
60°-70°	520.7	4.5
70°-80°	232.4	2.0
80°-90°	36.9	0.3
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°	6252.9	54.5
0°-40°	8301.9	72.4
0°-60°	10680.1	93.1
0°-90°	11470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10725	10725	10725	10725	10725	
5°	10618	10668	10563	10573	10555	###
15°	10277	10080	9365	8043	7431	2901
25°	9594	8906	5540	3555	2542	4422
35°	8599	6168	1678	493	291	5379
45°	7312	3465	245	182	176	5633
55°	5664	720	152	147	114	5050
65°	3596	79	91	76	60	3560
75°	1443	48	36	37	32	1566
85°	96	9	13	17	16	191
90°	0	0	0	0	0	



TEST NUMBER: P730231

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10724.7	10724.7	10724.7	10724.7	10724.7
2.5°	10650.1	10719.8	10661.1	10713.8	10760.4
5°	10618.3	10668.2	10562.9	10572.7	10555.2
7.5°	10563.4	10575.5	10385.1	10311.5	10275.8
10°	10489.8	10457.5	10153.5	9978.4	9853.8
12.5°	10397.1	10290.1	9865.3	9240.2	8867.6
15°	10276.9	10079.9	9364.8	8042.8	7431.4
17.5°	10133.7	9860.4	8536.1	6703.1	6174.1
20°	9978.4	9617.8	7455.5	5699.4	5185.6
22.5°	9795.1	9307.7	6389.7	4740.0	4034.8
25°	9593.7	8905.5	5540.2	3554.6	2541.5
27.5°	9376.4	8374.8	4753.7	2179.8	1374.2
30°	9123.9	7728.8	3863.6	1223.3	883.6
32.5°	8877.5	6975.9	2760.0	815.0	564.7
35°	8599.2	6167.5	1678.2	493.4	290.9
37.5°	8304.5	5432.6	1050.4	268.3	200.8
40°	7992.3	4735.6	712.3	190.5	187.7
42.5°	7658.6	4105.0	446.2	181.1	187.1
45°	7311.7	3465.1	245.3	181.7	175.6
47.5°	6935.3	2770.4	171.2	171.8	171.2
50°	6540.7	1987.2	161.9	169.6	168.0
52.5°	6115.3	1233.7	162.5	165.7	148.7
55°	5663.7	720.0	152.0	147.1	114.2
57.5°	5188.9	448.9	148.7	121.3	102.6
60°	4691.7	237.1	141.6	109.2	87.8
62.5°	4162.1	116.9	113.6	93.3	71.9
65°	3596.3	79.1	91.1	75.7	60.4
67.5°	3049.7	71.3	68.6	62.0	52.7
70°	2495.4	65.3	53.2	54.3	45.0
72.5°	1951.6	59.3	42.8	46.6	37.9
75°	1443.4	47.8	35.7	36.7	32.4
77.5°	1004.3	37.3	28.0	31.3	30.2
80°	605.9	23.6	22.5	25.8	23.6
82.5°	293.6	15.4	17.6	20.3	18.6
85°	96.1	9.3	13.2	17.0	15.9
87.5°	12.1	5.5	11.0	14.8	13.7
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)