

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: P730303

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730303
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-LD5-12SE-N-CL-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11233.0 lumens
Efficiency: N/A
Efficacy: 149.8 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

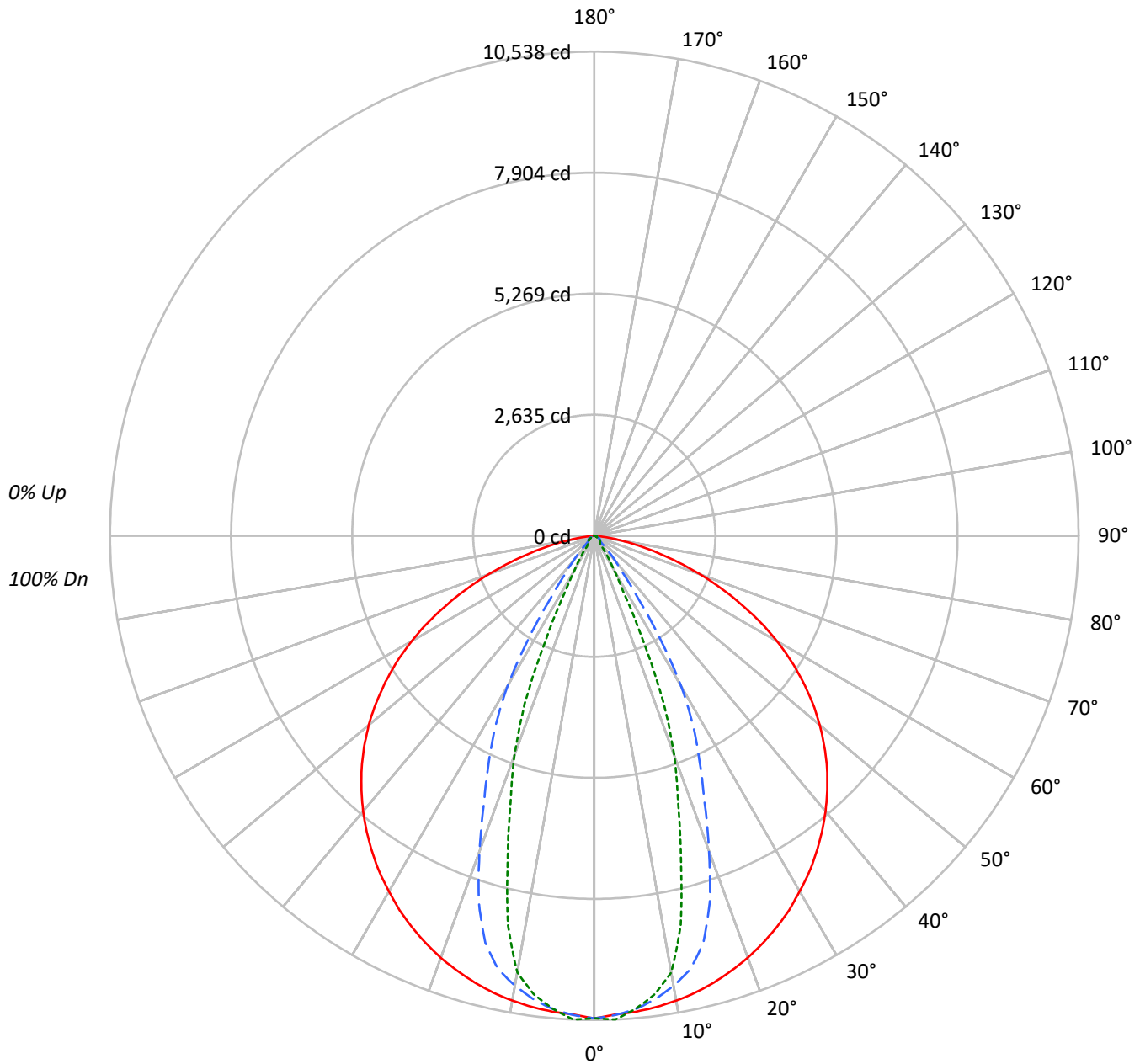
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730303

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

Luminous Intensity Polar Plot





TEST NUMBER: P730303

CATALOG NUMBER: HBLED-LD5-12SE-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°	16958	16958	16958
5°	16854	16766	16754
10°	16843	16303	15821
15°	16823	15330	12165
20°	16791	12545	8726
25°	16738	9666	4434
30°	16659	7054	1613
35°	16599	3240	561
40°	16497	1470	387
45°	16351	548	393
50°	16090	398	413
55°	15613	419	315
60°	14837	448	278
65°	13456	341	226
70°	11537	246	208
75°	8818	218	198
80°	5517	205	215
85°	1743	239	289



TEST NUMBER: P730303

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.8	8.7
10°-20°	2463.3	21.9
20°-30°	2682.6	23.9
30°-40°	2006.7	17.9
40°-50°	1442.9	12.8
50°-60°	886.1	7.9
60°-70°	509.9	4.5
70°-80°	227.6	2.0
80°-90°	36.1	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°	6123.7	54.5
0°-40°	8130.4	72.4
0°-60°	10459.4	93.1
0°-90°	11233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10503	10503	10503	10503	10503	
5°	10399	10448	10345	10354	10337	989
15°	10065	9872	9171	7877	7278	2841
25°	9395	8722	5426	3481	2489	4331
35°	8422	6040	1644	483	285	5268
45°	7161	3394	240	178	172	5516
55°	5547	705	149	144	112	4945
65°	3522	77	89	74	59	3486
75°	1414	47	35	36	32	1534
85°	94	9	13	17	16	187
90°	0	0	0	0	0	



TEST NUMBER: P730303

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10503.1	10503.1	10503.1	10503.1	10503.1
2.5°	10430.1	10498.3	10440.8	10492.4	10538.1
5°	10398.9	10447.8	10344.6	10354.2	10337.1
7.5°	10345.1	10356.9	10170.5	10098.4	10063.5
10°	10273.1	10241.4	9943.7	9772.2	9650.2
12.5°	10182.3	10077.5	9661.5	9049.3	8684.4
15°	10064.6	9871.6	9171.3	7876.6	7277.8
17.5°	9924.3	9656.6	8359.7	6564.6	6046.5
20°	9772.2	9419.1	7301.4	5581.6	5078.5
22.5°	9592.7	9115.4	6257.7	4642.1	3951.5
25°	9395.4	8721.5	5425.7	3481.2	2489.0
27.5°	9182.6	8201.7	4655.5	2134.8	1345.8
30°	8935.4	7569.1	3783.8	1198.0	865.3
32.5°	8694.0	6831.7	2702.9	798.1	553.0
35°	8421.5	6040.1	1643.6	483.2	284.8
37.5°	8132.9	5320.3	1028.7	262.8	196.7
40°	7827.1	4637.8	697.6	186.5	183.8
42.5°	7500.3	4020.2	436.9	177.3	183.3
45°	7160.7	3393.5	240.2	177.9	172.0
47.5°	6792.0	2713.1	167.7	168.2	167.7
50°	6405.5	1946.1	158.6	166.1	164.5
52.5°	5989.0	1208.2	159.1	162.3	145.7
55°	5546.6	705.1	148.9	144.1	111.8
57.5°	5081.7	439.6	145.7	118.8	100.5
60°	4594.8	232.2	138.7	107.0	86.0
62.5°	4076.1	114.5	111.2	91.4	70.4
65°	3522.0	77.4	89.2	74.2	59.1
67.5°	2986.7	69.8	67.2	60.7	51.6
70°	2443.9	63.9	52.1	53.2	44.1
72.5°	1911.2	58.0	41.9	45.7	37.1
75°	1413.5	46.8	35.0	36.0	31.7
77.5°	983.5	36.6	27.4	30.6	29.6
80°	593.4	23.1	22.0	25.3	23.1
82.5°	287.5	15.0	17.2	19.9	18.3
85°	94.1	9.1	12.9	16.6	15.6
87.5°	11.8	5.4	10.7	14.5	13.4
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)