

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: P730243

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLI-UNV-L850
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11330.0 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

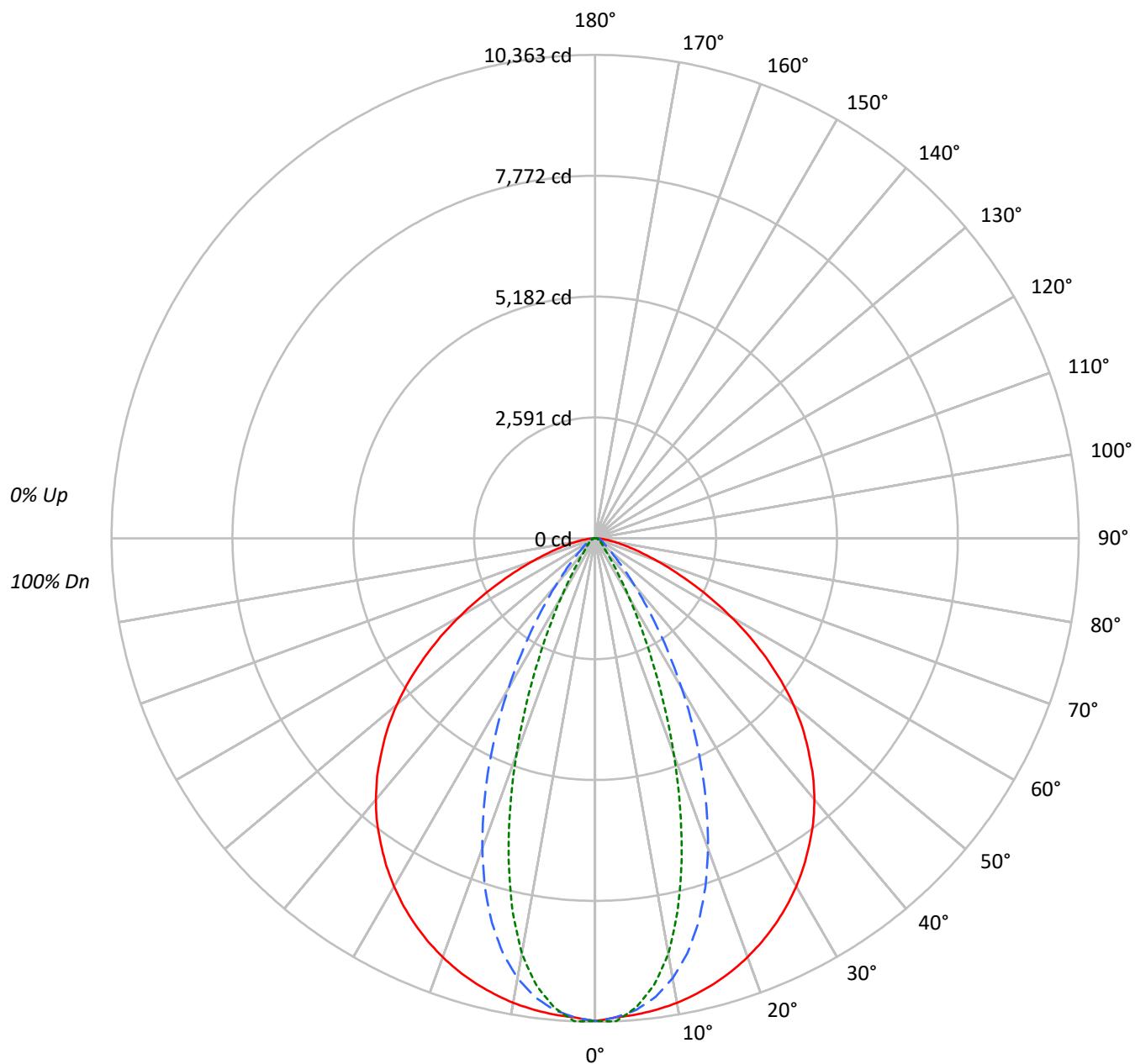
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16710	16710	16710
5°	16609	16444	16357
10°	16581	15699	14814
15°	16515	14270	11964
20°	16415	12143	8480
25°	16268	9575	5123
30°	16071	6910	2633
35°	15781	4518	1315
40°	15407	2714	767
45°	14767	1621	574
50°	13927	1060	482
55°	12605	804	421
60°	10832	685	384
65°	8713	625	362
70°	6564	669	360
75°	4828	636	371
80°	3532	633	405
85°	2645	769	524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	953.1	8.4
10°-20°	2371.1	20.9
20°-30°	2626.4	23.2
30°-40°	2104.2	18.6
40°-50°	1502.1	13.3
50°-60°	964.8	8.5
60°-70°	522.8	4.6
70°-80°	223.5	2.0
80°-90°	62.0	0.5
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°	5950.6	52.5
0°-40°	8054.7	71.1
0°-60°	10521.7	92.9
0°-90°	11330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10349	10349	10349	10349	10349	
5°	10248	10286	10146	10114	10092	974
15°	9880	9571	8537	7545	7158	2788
25°	9132	8052	5375	3502	2876	4207
35°	8006	5791	2292	924	667	5006
45°	6467	3343	710	302	251	4985
55°	4478	1495	286	176	149	3991
65°	2281	614	164	113	95	2284
75°	774	225	102	71	59	860
85°	143	59	42	34	28	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10349.1	10349.1	10349.1	10349.1	10349.1
2.5°	10281.0	10345.3	10276.1	10319.1	10363.3
5°	10247.7	10285.9	10145.8	10113.6	10092.4
7.5°	10189.9	10179.0	9915.8	9745.2	9662.8
10°	10113.6	10025.3	9575.6	9200.6	9036.0
12.5°	10004.6	9822.6	9115.0	8456.6	8177.5
15°	9879.8	9570.8	8537.2	7544.7	7157.6
17.5°	9730.4	9276.4	7846.6	6566.8	6056.0
20°	9553.8	8921.0	7067.1	5527.8	4935.3
22.5°	9356.5	8511.1	6232.6	4492.1	3856.6
25°	9131.9	8052.1	5374.6	3501.7	2875.9
27.5°	8889.4	7542.5	4521.6	2616.4	2045.7
30°	8620.1	6990.8	3706.6	1886.6	1412.4
32.5°	8326.3	6404.3	2949.5	1326.7	965.9
35°	8006.3	5791.1	2292.1	924.5	667.2
37.5°	7678.7	5165.3	1731.2	653.5	478.6
40°	7309.7	4541.7	1287.5	478.6	364.1
42.5°	6913.4	3930.1	952.8	368.5	294.9
45°	6467.0	3343.0	709.7	302.0	251.3
47.5°	6034.2	2795.8	539.1	257.3	218.6
50°	5544.7	2302.0	421.9	224.6	191.9
52.5°	5025.2	1867.5	342.3	197.9	169.0
55°	4477.9	1494.6	285.6	175.5	149.4
57.5°	3923.6	1183.9	244.2	156.4	133.0
60°	3354.5	946.8	212.0	140.1	118.8
62.5°	2799.1	757.1	185.3	125.9	106.3
65°	2280.7	613.7	163.5	112.8	94.8
67.5°	1801.5	485.1	152.6	101.4	85.6
70°	1390.5	377.7	141.7	90.5	76.3
72.5°	1053.6	290.0	125.4	80.7	67.6
75°	774.0	224.6	101.9	70.9	59.4
77.5°	553.8	172.8	82.9	61.6	51.3
80°	379.9	128.7	68.1	52.9	43.6
82.5°	247.0	91.1	55.0	43.6	36.0
85°	142.8	59.4	41.5	34.3	28.3
87.5°	61.6	32.7	28.3	25.6	21.8
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)