

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: P#

Luminaire Tested: **HBLED-LD5-12HE-N-CLWG-UNV-L850-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

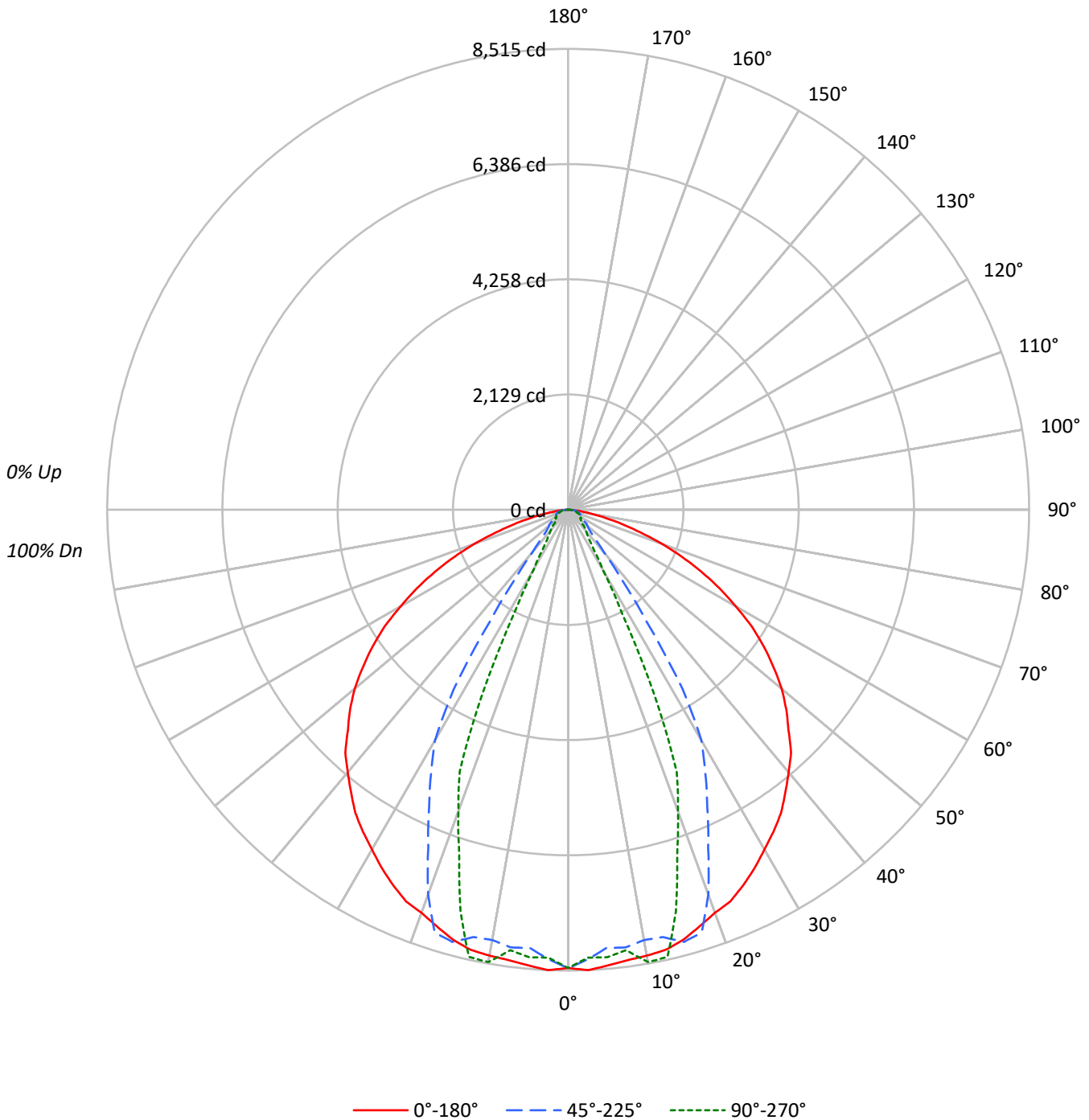
Lumens per Lamp: N/A
Luminaire Lumens: 11385.0 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11395	11395	11395
5°	11413	10979	11210
10°	11430	11031	11598
15°	11456	11515	10703
20°	11347	10831	8495
25°	11363	9029	5549
30°	11262	7649	1993
35°	11250	4144	1121
40°	11122	1806	878
45°	10950	1116	689
50°	10780	973	650
55°	10356	844	636
60°	9608	756	684
65°	8637	854	747
70°	7243	918	770
75°	5415	1048	834
80°	3401	1216	951
85°	2265	1524	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.9	6.9
10°-20°	2216.5	19.5
20°-30°	2714.1	23.8
30°-40°	2131.4	18.7
40°-50°	1580.6	13.9
50°-60°	962.2	8.5
60°-70°	576.4	5.1
70°-80°	316.2	2.8
80°-90°	102.6	0.9
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°	5715.6	50.2
0°-40°	7847.0	68.9
0°-60°	10389.8	91.3
0°-90°	11385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8469	8469	8469	8469	8469	
5°	8450	8220	8129	8218	8300	804
15°	8224	7998	8267	7933	7683	2315
25°	7654	7678	6082	4770	3738	3524
35°	6849	6230	2523	844	683	4274
45°	5755	4132	587	445	362	4450
55°	4415	1139	360	304	271	3929
65°	2713	336	268	252	235	2680
75°	1042	212	202	175	160	1128
85°	147	115	99	91	90	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8468.7	8468.7	8468.7	8468.7	8468.7
2.5°	8515.0	8400.2	8312.3	8263.3	8283.2
5°	8450.5	8220.5	8128.6	8218.2	8299.8
7.5°	8394.5	8052.7	8156.5	8164.5	8207.3
10°	8366.0	8036.7	8074.3	8251.8	8488.7
12.5°	8328.3	8073.8	8086.9	8328.9	8462.5
15°	8223.9	7998.4	8266.7	7932.8	7683.4
17.5°	8071.5	7822.6	8191.4	7027.6	6688.6
20°	7924.8	7631.4	7564.1	6259.9	5932.9
22.5°	7830.1	7602.3	6757.1	5577.9	5240.0
25°	7654.3	7678.2	6081.9	4770.3	3737.8
27.5°	7460.8	7499.6	5484.9	3181.3	2141.4
30°	7248.5	7293.0	4923.3	1880.0	1283.0
32.5°	7056.1	6805.0	3931.9	1172.9	892.1
35°	6849.0	6230.3	2522.7	844.1	682.6
37.5°	6588.1	5626.4	1596.9	667.8	573.0
40°	6332.4	5084.2	1028.5	570.2	500.0
42.5°	6093.3	4637.3	748.2	498.3	451.5
45°	5754.8	4132.2	586.7	444.6	361.9
47.5°	5462.0	3539.8	513.1	376.1	312.2
50°	5149.8	2706.5	464.6	334.5	310.5
52.5°	4779.4	1770.5	429.2	320.2	289.9
55°	4414.7	1138.6	359.6	304.2	271.1
57.5°	4020.9	722.0	317.3	295.1	283.1
60°	3570.6	486.8	280.8	279.7	254.0
62.5°	3153.9	400.1	271.1	268.3	240.3
65°	2712.8	335.6	268.3	252.3	234.6
67.5°	2272.1	287.7	242.6	230.6	215.2
70°	1841.2	263.1	233.4	228.3	195.8
72.5°	1398.3	216.9	207.2	193.5	162.7
75°	1041.6	211.7	201.5	175.2	160.4
77.5°	704.9	195.2	183.2	157.0	145.0
80°	438.9	179.2	157.0	137.5	122.7
82.5°	260.8	149.5	129.0	113.6	103.9
85°	146.7	115.3	98.7	90.7	90.2
87.5°	31.4	41.7	33.1	31.4	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)