

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-LD5-15HE-W-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-WG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

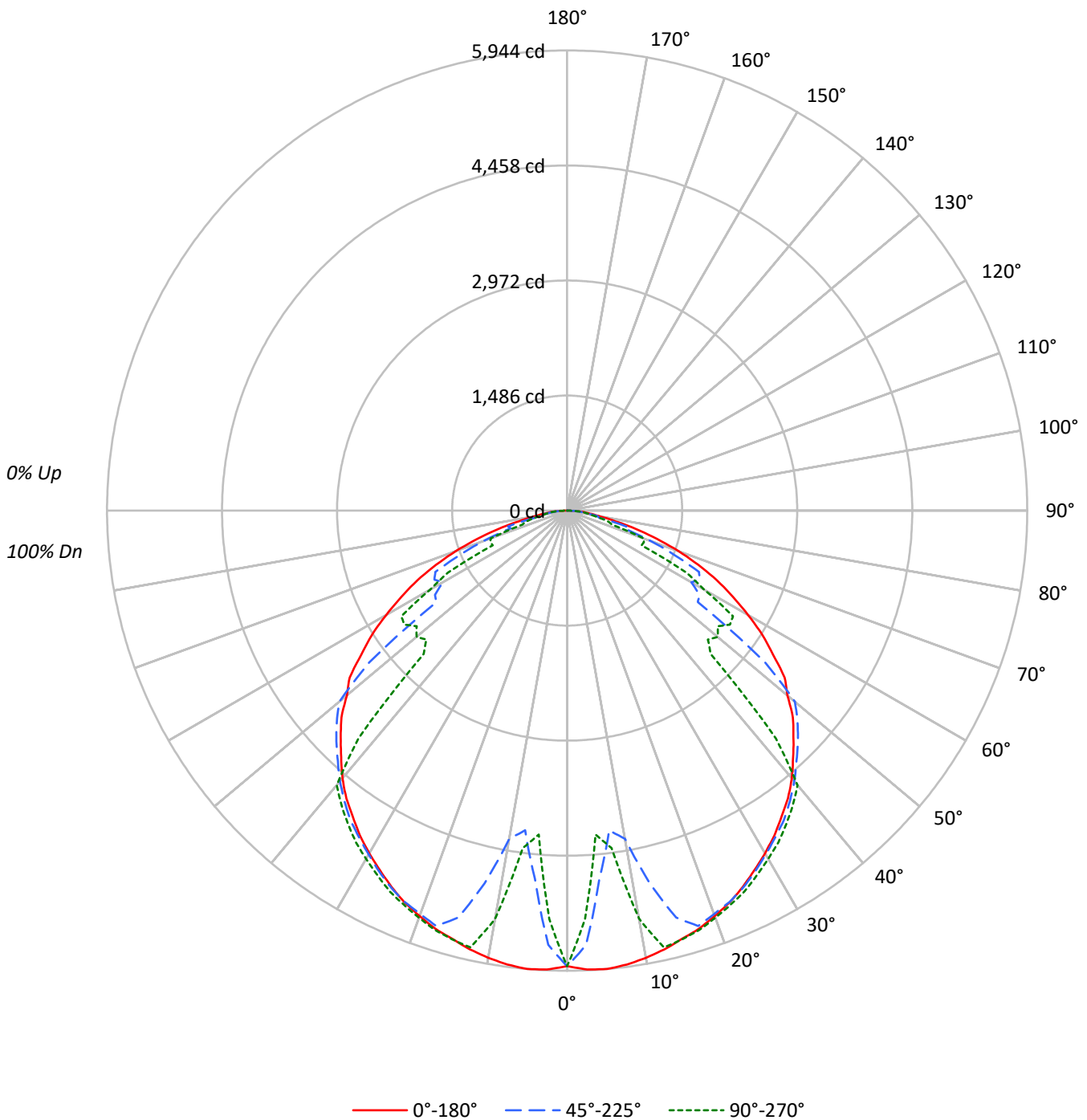
Lumens per Lamp: N/A
Luminaire Lumens: 15591.0 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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	0
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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7918	7918	7918
5°	8028	6450	5672
10°	8015	5882	7316
15°	7979	7581	7986
20°	7979	7943	8013
25°	7965	7983	8056
30°	7942	7968	8071
35°	7929	8017	8111
40°	7930	8017	8132
45°	7868	8022	4985
50°	7779	8038	5313
55°	7615	4833	6022
60°	7264	4982	5514
65°	6806	5982	3374
70°	6010	4532	4136
75°	4789	4119	2868
80°	3298	2977	2465
85°	3162	2748	2607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	3.0
10°-20°	1474.3	9.5
20°-30°	2425.6	15.6
30°-40°	3049.9	19.6
40°-50°	2991.1	19.2
50°-60°	2478.3	15.9
60°-70°	1748.0	11.2
70°-80°	762.6	4.9
80°-90°	190.5	1.2
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°	4370.5	28.0
0°-40°	7420.4	47.6
0°-60°	12889.8	82.7
0°-90°	15591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5885	5885	5885	5885	5885	
5°	5944	5532	4775	4330	4200	564
15°	5728	3978	5442	5751	5733	1620
25°	5365	4909	5377	5413	5426	2473
35°	4827	4825	4881	4913	4938	3025
45°	4135	4148	4216	3734	2620	3192
55°	3246	3352	2060	2343	2567	2904
65°	2138	2264	1879	1445	1060	2102
75°	921	903	792	518	552	988
85°	205	182	178	170	169	212
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5885.1	5885.1	5885.1	5885.1	5885.1
2.5°	5933.7	5810.5	5614.9	5368.6	5281.3
5°	5944.2	5532.5	4775.4	4329.9	4199.7
7.5°	5913.9	5028.0	4163.1	4256.7	4394.6
10°	5866.1	4584.6	4305.3	5065.3	5354.5
12.5°	5804.9	4190.6	4932.3	5721.8	5779.5
15°	5728.2	3978.1	5442.5	5750.7	5733.1
17.5°	5663.4	4102.6	5625.4	5693.0	5680.3
20°	5572.7	4351.0	5547.3	5601.5	5596.6
22.5°	5481.2	4645.2	5473.4	5512.1	5512.1
25°	5365.1	4909.1	5377.0	5412.9	5426.3
27.5°	5237.7	5061.1	5256.7	5286.2	5310.2
30°	5111.7	5082.9	5128.6	5166.6	5194.8
32.5°	4978.7	4967.5	5003.4	5043.5	5079.4
35°	4827.4	4824.6	4880.9	4913.3	4937.9
37.5°	4685.3	4675.4	4727.5	4772.5	4791.5
40°	4515.0	4515.0	4564.2	4610.0	4629.7
42.5°	4320.8	4348.2	4386.2	4433.3	3992.8
45°	4135.0	4147.6	4215.9	3733.9	2619.9
47.5°	3956.2	3972.4	4037.2	2400.3	2465.8
50°	3716.3	3789.5	3840.1	2393.3	2538.3
52.5°	3541.1	3572.7	3223.7	2369.4	2451.0
55°	3246.2	3352.5	2060.5	2342.6	2567.1
57.5°	2994.3	3071.7	2026.0	2400.3	2539.7
60°	2699.4	2817.6	1851.5	2315.9	2049.2
62.5°	2416.5	2529.1	1933.1	1822.6	1735.3
65°	2137.9	2263.8	1878.9	1445.4	1059.8
67.5°	1832.5	1714.9	1498.9	1018.3	1071.7
70°	1527.7	1197.7	1152.0	1138.6	1051.3
72.5°	1214.6	874.0	764.9	854.3	611.5
75°	921.2	902.9	792.4	517.9	551.7
77.5°	639.0	651.6	424.3	505.3	419.4
80°	425.7	368.7	384.2	322.3	318.1
82.5°	294.9	301.2	252.6	244.9	248.4
85°	204.8	182.3	178.0	170.3	168.9
87.5°	68.3	79.5	73.9	66.9	71.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)