

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-LD5-18HE-W-UNV-L850-ED2-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

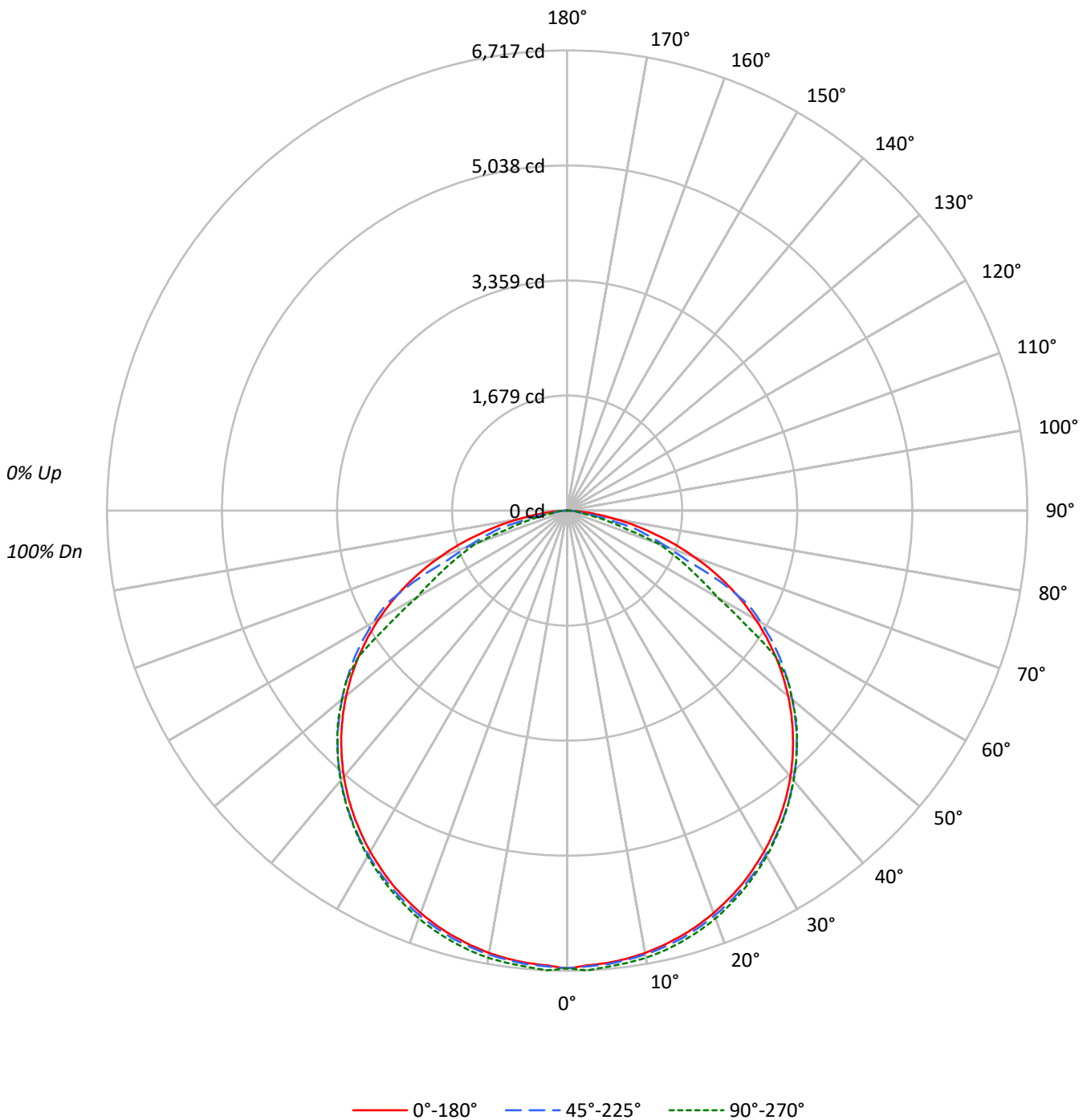
Lumens per Lamp: N/A
Luminaire Lumens: 19289.0 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8990	8990	8990
5°	8953	8978	9029
10°	8958	8990	9058
15°	8956	9003	9066
20°	8951	9008	9071
25°	8948	9012	9062
30°	8932	9019	9053
35°	8921	9023	9035
40°	8905	9023	9037
45°	8871	9019	9030
50°	8818	8981	8979
55°	8715	8933	8712
60°	8554	8801	6816
65°	8268	7921	6141
70°	7746	6094	5660
75°	6858	5313	3527
80°	5649	3128	1577
85°	3722	1917	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.0	3.3
10°-20°	1829.3	9.5
20°-30°	2804.5	14.5
30°-40°	3439.4	17.8
40°-50°	3652.1	18.9
50°-60°	3335.8	17.3
60°-70°	2323.0	12.0
70°-80°	1083.5	5.6
80°-90°	187.4	1.0
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°	5267.8	27.3
0°-40°	8707.2	45.1
0°-60°	15695.1	81.4
0°-90°	19289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6682	6682	6682	6682	6682	
5°	6629	6675	6647	6679	6685	631
15°	6429	6474	6464	6503	6508	1815
25°	6027	6080	6070	6115	6104	2778
35°	5431	5494	5494	5530	5501	3399
45°	4662	4733	4740	4770	4745	3596
55°	3715	3790	3808	3815	3714	3318
65°	2597	2677	2488	1979	1929	2562
75°	1319	1403	1022	708	678	1410
85°	241	159	124	133	134	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6681.5	6681.5	6681.5	6681.5	6681.5
2.5°	6646.3	6688.7	6660.7	6691.1	6716.8
5°	6628.7	6675.1	6647.1	6679.1	6684.7
7.5°	6599.8	6643.9	6618.3	6653.5	6662.3
10°	6556.6	6599.8	6579.8	6621.5	6629.5
12.5°	6498.1	6542.2	6526.9	6572.6	6578.2
15°	6429.2	6474.1	6463.6	6502.9	6508.5
17.5°	6348.3	6394.8	6382.7	6424.4	6428.4
20°	6251.4	6301.8	6291.4	6340.3	6335.5
22.5°	6142.4	6196.1	6188.1	6237.0	6222.5
25°	6027.1	6079.9	6070.3	6115.2	6104.0
27.5°	5891.7	5950.2	5941.4	5984.6	5967.0
30°	5749.1	5808.4	5805.2	5844.4	5826.8
32.5°	5595.3	5658.6	5655.4	5693.8	5666.6
35°	5431.1	5493.6	5493.6	5530.4	5500.8
37.5°	5257.3	5320.6	5321.4	5356.6	5328.6
40°	5069.8	5133.1	5137.1	5170.8	5145.1
42.5°	4872.8	4941.7	4944.9	4975.3	4951.3
45°	4662.1	4732.6	4739.8	4770.2	4745.4
47.5°	4441.8	4513.1	4519.5	4552.4	4534.7
50°	4212.7	4281.6	4290.4	4317.6	4289.6
52.5°	3970.8	4041.3	4053.3	4070.1	4057.3
55°	3715.3	3789.8	3808.2	3814.6	3713.7
57.5°	3450.9	3527.0	3544.6	3397.2	3072.8
60°	3178.6	3253.9	3270.7	2763.6	2532.9
62.5°	2895.0	2968.7	2987.1	2290.2	2216.5
65°	2597.0	2677.1	2488.1	1978.6	1928.9
67.5°	2291.0	2373.5	1881.7	1695.8	1666.2
70°	1969.0	2052.3	1549.2	1445.9	1438.7
72.5°	1659.8	1721.5	1271.3	1095.8	922.8
75°	1319.3	1402.6	1022.1	708.1	678.5
77.5°	1022.9	884.4	616.8	519.1	409.3
80°	729.0	591.2	403.7	215.5	203.5
82.5°	462.2	386.1	158.6	162.6	169.8
85°	241.1	158.6	124.2	133.0	133.8
87.5°	77.7	68.1	74.5	73.7	72.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)