

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-AWG-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-AWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

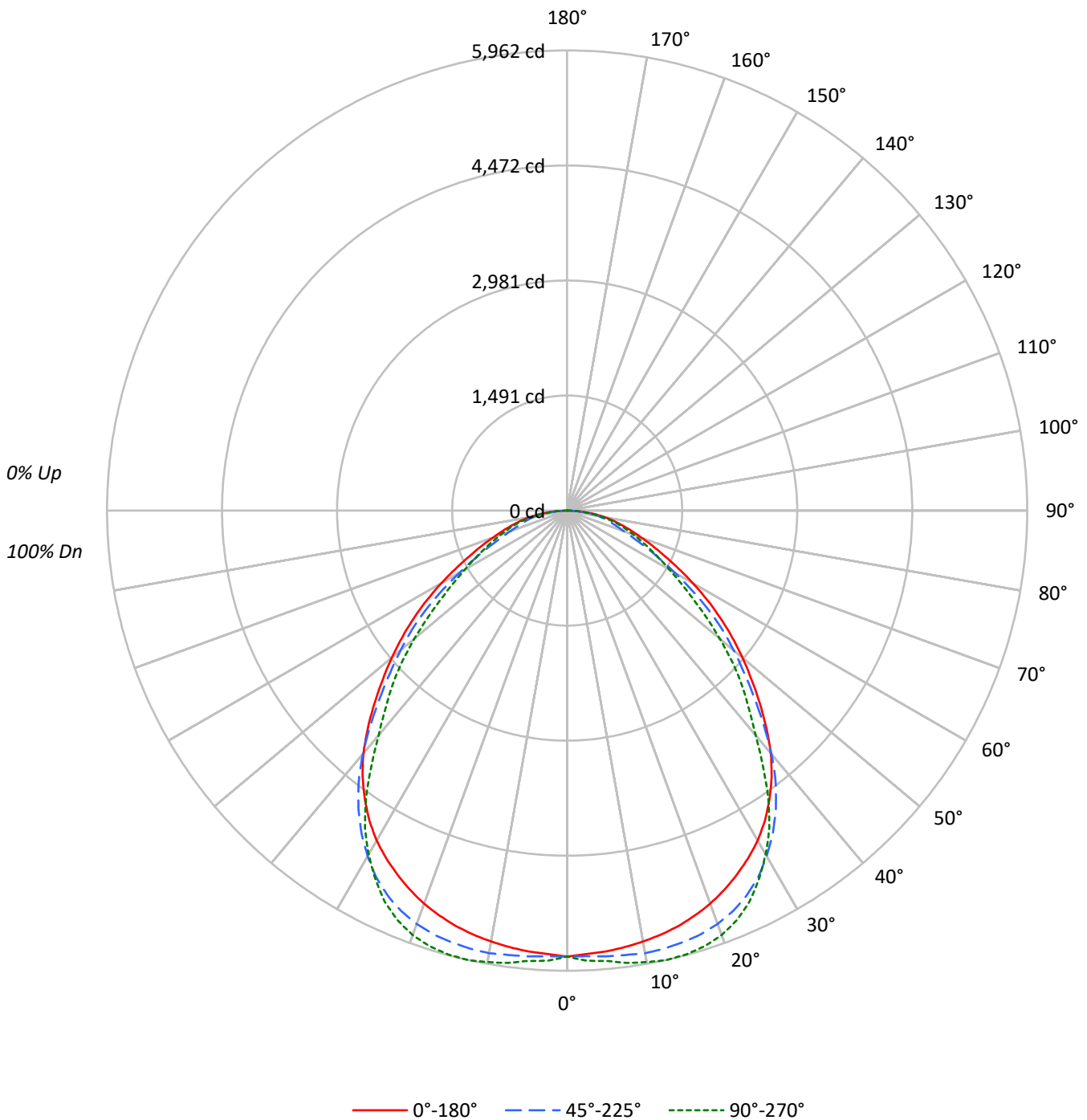
Lumens per Lamp: N/A
Luminaire Lumens: 14323.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7774	7774	7774
5°	7744	7831	7910
10°	7746	7956	8116
15°	7761	8067	8293
20°	7759	8159	8378
25°	7726	8170	8302
30°	7668	8034	7991
35°	7506	7743	7461
40°	7212	7233	6670
45°	6713	6521	6098
50°	6205	5897	5403
55°	5680	5226	4662
60°	5065	4338	4117
65°	4442	3570	3783
70°	4011	3075	3602
75°	3833	3014	3592
80°	3864	3191	3505
85°	3423	2922	3060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.0	3.9
10°-20°	1635.6	11.4
20°-30°	2508.8	17.5
30°-40°	2885.5	20.1
40°-50°	2631.8	18.4
50°-60°	1972.5	13.8
60°-70°	1213.4	8.5
70°-80°	695.3	4.9
80°-90°	225.1	1.6
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°	4699.4	32.8
0°-40°	7584.9	53.0
0°-60°	12189.2	85.1
0°-90°	14323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5778	5778	5778	5778	5778	
5°	5734	5792	5798	5846	5857	545
15°	5572	5695	5791	5915	5954	1573
25°	5204	5354	5503	5588	5592	2398
35°	4570	4659	4714	4637	4542	2850
45°	3528	3605	3427	3250	3205	2723
55°	2422	2332	2228	2031	1988	2163
65°	1395	1248	1121	1156	1188	1403
75°	737	661	580	664	691	789
85°	222	209	189	200	198	247
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5777.8	5777.8	5777.8	5777.8	5777.8
2.5°	5750.5	5791.8	5778.5	5812.4	5837.5
5°	5733.6	5791.8	5797.7	5845.6	5856.6
7.5°	5704.8	5780.7	5807.2	5892.0	5911.1
10°	5669.5	5760.8	5823.5	5914.8	5940.6
12.5°	5626.8	5732.8	5812.4	5925.1	5962.0
15°	5571.5	5695.3	5791.0	5914.8	5953.8
17.5°	5501.5	5645.2	5757.2	5878.7	5919.2
20°	5419.0	5570.8	5698.2	5822.7	5851.4
22.5°	5319.6	5472.1	5617.2	5729.2	5744.6
25°	5203.9	5353.5	5503.0	5587.7	5592.1
27.5°	5077.9	5217.2	5357.1	5402.8	5382.9
30°	4935.8	5060.3	5170.8	5180.3	5143.5
32.5°	4767.1	4879.0	4957.9	4937.2	4875.3
35°	4569.6	4658.8	4714.0	4636.7	4542.4
37.5°	4353.0	4420.1	4438.5	4270.5	4163.0
40°	4106.3	4163.7	4118.0	3884.5	3797.6
42.5°	3821.9	3888.2	3771.1	3540.5	3487.4
45°	3528.0	3604.6	3427.0	3250.2	3204.6
47.5°	3239.9	3309.9	3108.8	2966.6	2898.8
50°	2964.4	2994.6	2817.1	2656.5	2581.3
52.5°	2693.3	2663.1	2537.1	2337.5	2271.2
55°	2421.5	2331.6	2227.7	2031.0	1987.6
57.5°	2148.9	2023.7	1910.2	1759.2	1742.2
60°	1882.2	1728.3	1611.9	1522.0	1530.1
62.5°	1628.1	1471.1	1346.7	1317.9	1348.9
65°	1395.3	1247.9	1121.2	1155.9	1188.3
67.5°	1201.5	1060.1	931.2	1019.6	1045.3
70°	1019.6	905.4	781.6	895.8	915.7
72.5°	874.4	777.2	669.6	780.9	797.8
75°	737.4	660.8	579.8	663.7	691.0
77.5°	618.1	554.7	499.5	548.8	578.3
80°	498.7	445.0	411.8	433.9	452.3
82.5°	365.4	330.8	306.5	316.0	319.0
85°	221.7	209.2	189.3	199.6	198.2
87.5°	72.9	83.2	87.7	78.8	74.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)