

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-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 (P23760)
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-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

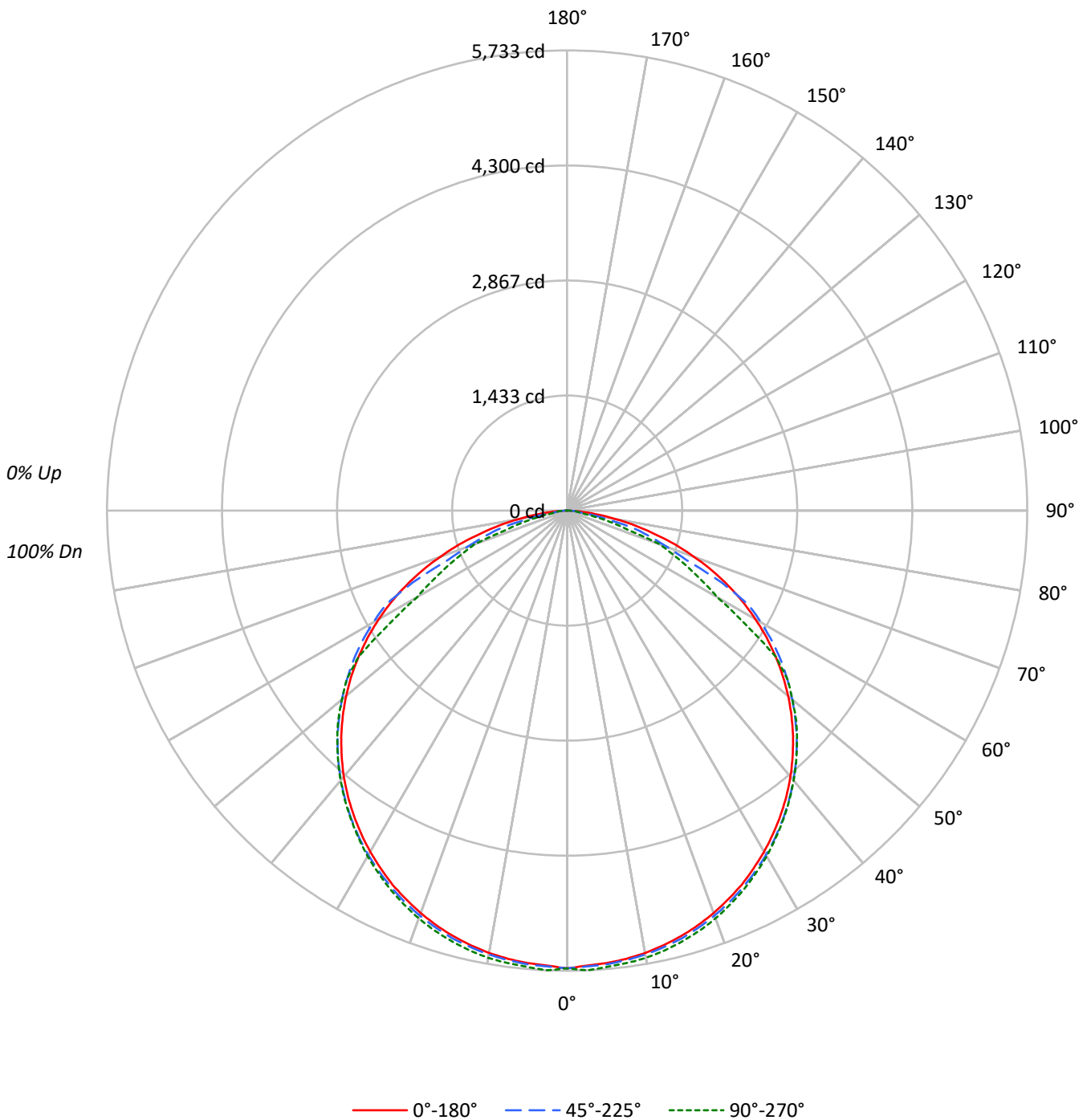
Lumens per Lamp: N/A
Luminaire Lumens: 16464.0 lumens
Efficiency: N/A
Efficacy: 179.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7673	7673	7673
5°	7642	7663	7706
10°	7646	7673	7731
15°	7644	7685	7738
20°	7640	7689	7743
25°	7637	7692	7735
30°	7624	7698	7727
35°	7614	7702	7712
40°	7601	7702	7713
45°	7572	7698	7707
50°	7527	7666	7664
55°	7439	7625	7436
60°	7301	7512	5818
65°	7057	6761	5242
70°	6611	5202	4831
75°	5854	4535	3010
80°	4821	2670	1346
85°	3177	1636	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	3.3
10°-20°	1561.4	9.5
20°-30°	2393.8	14.5
30°-40°	2935.7	17.8
40°-50°	3117.2	18.9
50°-60°	2847.2	17.3
60°-70°	1982.8	12.0
70°-80°	924.8	5.6
80°-90°	160.0	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°	4496.3	27.3
0°-40°	7432.0	45.1
0°-60°	13396.4	81.4
0°-90°	16464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5703	5703	5703	5703	5703	
5°	5658	5698	5674	5701	5706	538
15°	5488	5526	5517	5550	5555	1550
25°	5144	5190	5181	5220	5210	2371
35°	4636	4689	4689	4720	4695	2901
45°	3979	4040	4046	4072	4050	3069
55°	3171	3235	3250	3256	3170	2832
65°	2217	2285	2124	1689	1646	2187
75°	1126	1197	872	604	579	1204
85°	206	135	106	114	114	266
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5703.0	5703.0	5703.0	5703.0	5703.0
2.5°	5672.9	5709.1	5685.2	5711.2	5733.1
5°	5657.9	5697.5	5673.6	5700.9	5705.7
7.5°	5633.2	5670.8	5649.0	5679.0	5686.6
10°	5596.3	5633.2	5616.1	5651.7	5658.5
12.5°	5546.4	5584.0	5571.0	5610.0	5614.8
15°	5487.6	5525.9	5517.0	5550.5	5555.3
17.5°	5418.5	5458.2	5447.9	5483.5	5486.9
20°	5335.8	5378.9	5370.0	5411.7	5407.6
22.5°	5242.8	5288.6	5281.8	5323.5	5311.2
25°	5144.4	5189.5	5181.3	5219.6	5210.0
27.5°	5028.8	5078.7	5071.2	5108.1	5093.1
30°	4907.1	4957.7	4955.0	4988.5	4973.4
32.5°	4775.8	4829.9	4827.1	4859.9	4836.7
35°	4635.7	4689.0	4689.0	4720.5	4695.2
37.5°	4487.3	4541.3	4542.0	4572.1	4548.2
40°	4327.3	4381.3	4384.8	4413.5	4391.6
42.5°	4159.1	4217.9	4220.7	4246.6	4226.1
45°	3979.3	4039.5	4045.6	4071.6	4050.4
47.5°	3791.3	3852.1	3857.6	3885.6	3870.6
50°	3595.7	3654.5	3662.1	3685.3	3661.4
52.5°	3389.2	3449.4	3459.7	3474.0	3463.1
55°	3171.1	3234.7	3250.4	3255.9	3169.8
57.5°	2945.5	3010.5	3025.5	2899.7	2622.8
60°	2713.0	2777.3	2791.7	2358.9	2161.9
62.5°	2471.0	2533.9	2549.6	1954.8	1891.9
65°	2216.6	2285.0	2123.7	1688.8	1646.4
67.5°	1955.5	2025.9	1606.1	1447.5	1422.2
70°	1680.6	1751.7	1322.3	1234.1	1228.0
72.5°	1416.7	1469.3	1085.1	935.3	787.7
75°	1126.1	1197.2	872.4	604.4	579.1
77.5°	873.1	754.8	526.5	443.1	349.4
80°	622.2	504.6	344.6	183.9	173.7
82.5°	394.5	329.6	135.4	138.8	145.0
85°	205.8	135.4	106.0	113.5	114.2
87.5°	66.3	58.1	63.6	62.9	62.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)