

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-AI-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 (P23765)
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-AI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

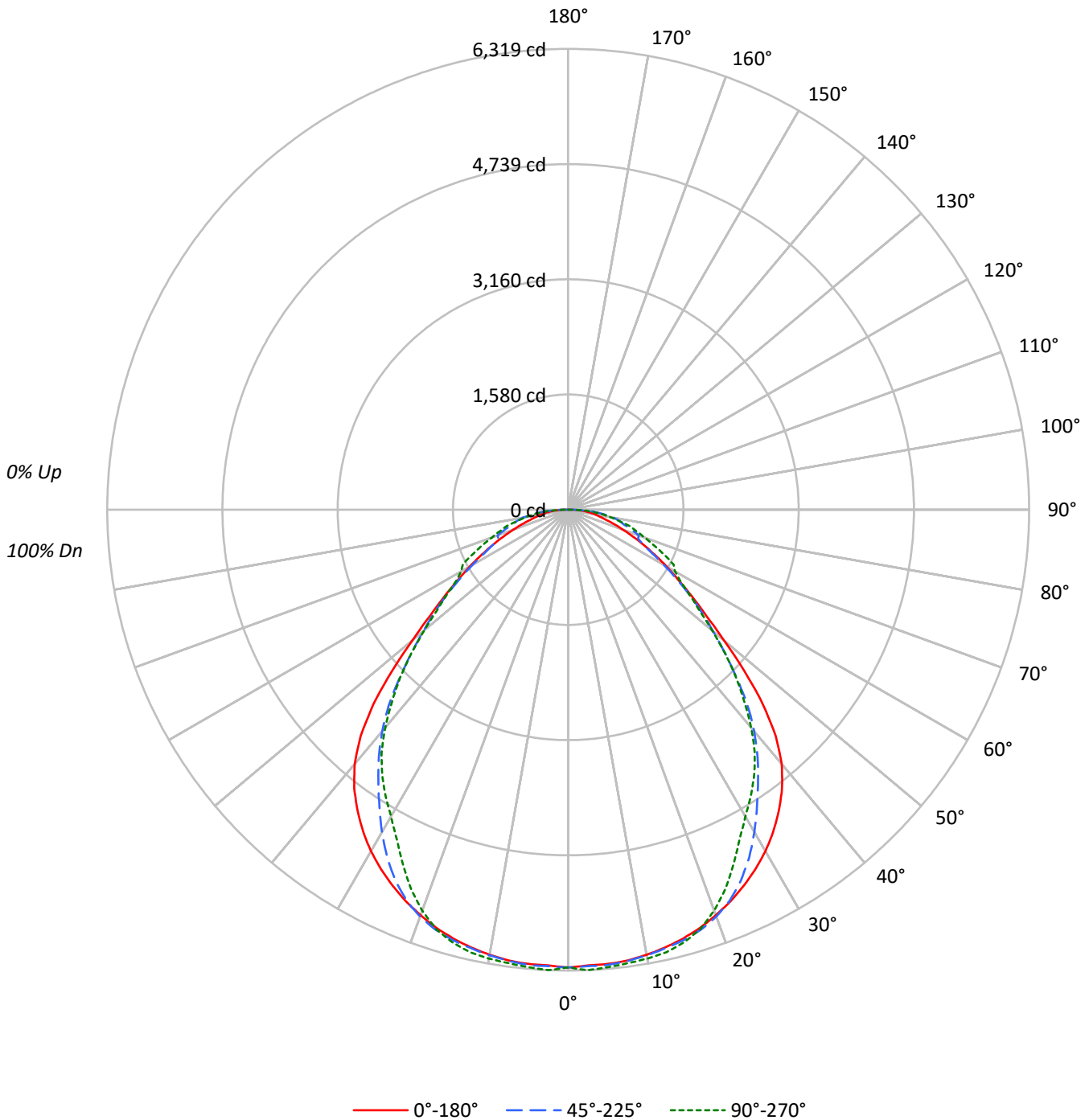
Lumens per Lamp: N/A
Luminaire Lumens: 14529.0 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8446	8446	8446
5°	8445	8463	8505
10°	8466	8477	8539
15°	8479	8511	8552
20°	8471	8502	8376
25°	8449	8323	7961
30°	8399	7930	7544
35°	8273	7453	7298
40°	7996	6969	6854
45°	7187	6223	6200
50°	5829	5420	5383
55°	4840	4750	4749
60°	4191	4068	4549
65°	3632	3609	4585
70°	3132	4049	4371
75°	2808	4149	4556
80°	2919	4885	4572
85°	3314	5629	5223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.7	4.1
10°-20°	1726.1	11.9
20°-30°	2563.6	17.6
30°-40°	2910.4	20.0
40°-50°	2601.7	17.9
50°-60°	1798.8	12.4
60°-70°	1187.0	8.2
70°-80°	800.8	5.5
80°-90°	343.0	2.4
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°	4887.3	33.6
0°-40°	7797.7	53.7
0°-60°	12198.2	84.0
0°-90°	14529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6277	6277	6277	6277	6277	
5°	6253	6291	6266	6292	6297	595
15°	6087	6116	6110	6144	6140	1718
25°	5691	5745	5606	5439	5362	2622
35°	5037	4931	4538	4472	4443	3141
45°	3777	3457	3270	3295	3258	2872
55°	2063	1884	2025	1997	2024	1874
65°	1141	1013	1134	1326	1440	1138
75°	540	680	798	853	876	590
85°	215	298	365	367	338	224
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6277.0	6277.0	6277.0	6277.0	6277.0
2.5°	6255.7	6294.7	6265.6	6292.6	6318.9
5°	6252.8	6291.2	6266.3	6291.9	6296.9
7.5°	6235.0	6270.6	6241.4	6266.3	6272.0
10°	6196.7	6238.6	6204.5	6242.9	6250.0
12.5°	6146.9	6189.6	6159.7	6212.3	6215.1
15°	6087.2	6116.3	6109.9	6144.1	6139.8
17.5°	6011.9	6045.3	6040.3	6048.8	6028.9
20°	5915.9	5953.6	5937.9	5898.8	5849.8
22.5°	5812.8	5858.3	5796.5	5697.7	5628.7
25°	5691.3	5745.3	5606.0	5439.0	5362.2
27.5°	5556.9	5605.3	5373.6	5168.9	5089.2
30°	5406.3	5426.9	5104.2	4909.4	4855.4
32.5°	5232.1	5202.3	4816.3	4687.7	4656.4
35°	5036.7	4930.7	4537.7	4471.6	4443.1
37.5°	4816.3	4622.3	4262.6	4232.0	4202.2
40°	4552.6	4266.2	3967.6	3947.7	3902.2
42.5°	4212.1	3878.8	3640.0	3616.5	3576.0
45°	3777.1	3457.3	3270.3	3295.2	3258.3
47.5°	3276.7	3034.4	2915.7	2983.9	2915.7
50°	2784.9	2622.1	2589.4	2651.2	2571.6
52.5°	2381.9	2235.4	2303.0	2313.6	2266.0
55°	2063.4	1883.6	2025.0	1996.6	2024.3
57.5°	1786.2	1585.1	1759.2	1726.5	1821.8
60°	1557.3	1331.3	1511.8	1504.7	1690.3
62.5°	1332.7	1152.2	1297.2	1401.7	1629.8
65°	1140.8	1012.9	1133.7	1325.6	1440.1
67.5°	956.7	908.4	1037.0	1143.7	1268.8
70°	796.1	821.0	1029.2	1009.3	1111.0
72.5°	661.0	745.6	908.4	911.9	983.7
75°	540.2	679.5	798.2	852.9	876.4
77.5°	449.2	616.3	720.7	739.9	717.2
80°	376.7	543.0	630.5	621.9	590.0
82.5°	304.2	411.5	496.8	504.7	467.0
85°	214.7	298.5	364.6	366.8	338.3
87.5°	115.1	184.1	221.1	227.5	210.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)