

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-N-CL-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

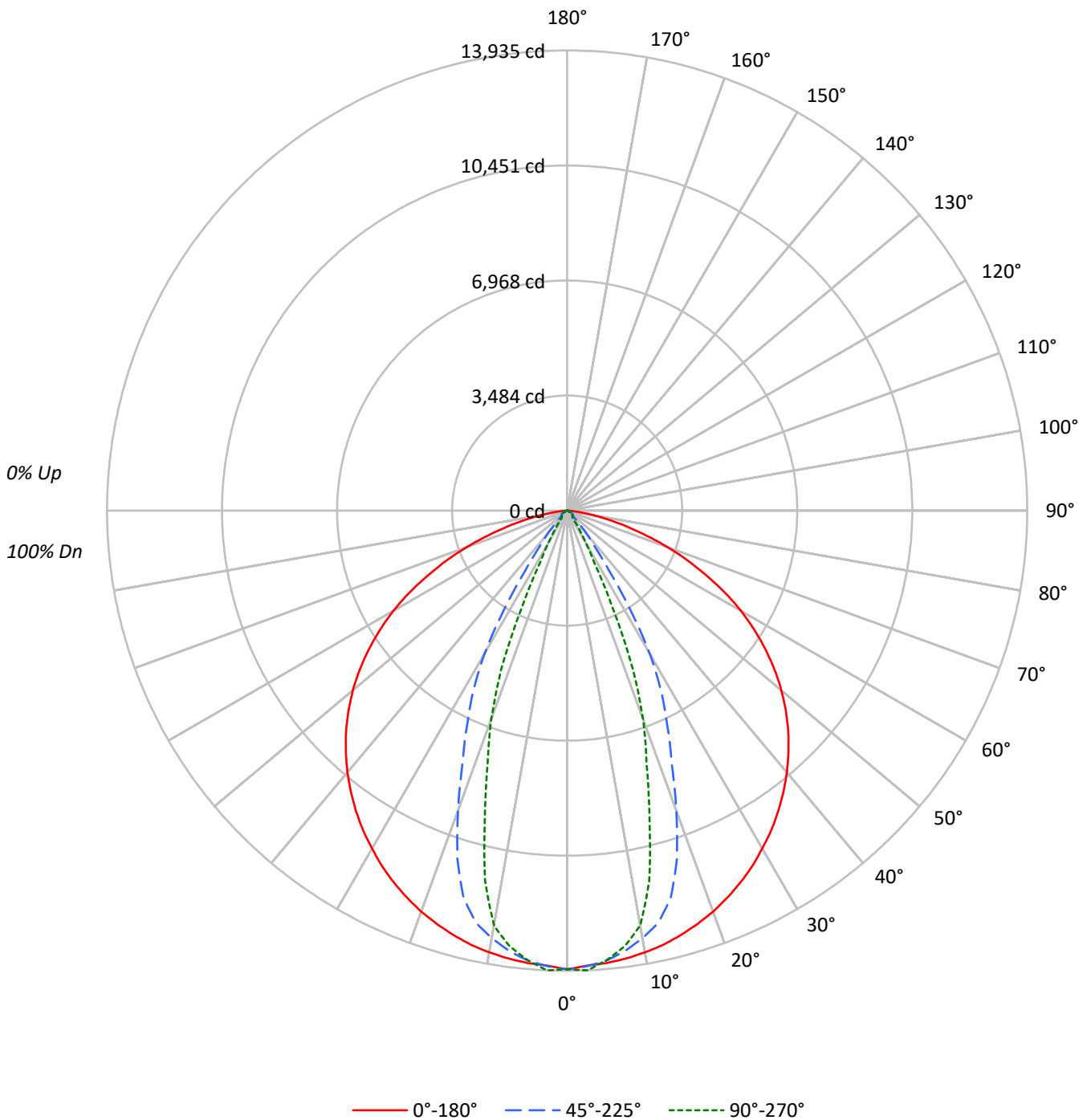
Lumens per Lamp: N/A
Luminaire Lumens: 14854.0 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18687	18687	18687
5°	18572	18476	18462
10°	18560	17965	17435
15°	18539	16893	13406
20°	18503	13825	9616
25°	18445	10651	4886
30°	18357	7774	1778
35°	18292	3570	619
40°	18179	1620	427
45°	18018	605	433
50°	17730	439	455
55°	17205	462	347
60°	16350	494	306
65°	14827	376	249
70°	12713	271	229
75°	9717	240	218
80°	6079	225	237
85°	1920	264	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1293.0	8.7
10°-20°	3257.3	21.9
20°-30°	3547.3	23.9
30°-40°	2653.6	17.9
40°-50°	1908.0	12.8
50°-60°	1171.8	7.9
60°-70°	674.3	4.5
70°-80°	300.9	2.0
80°-90°	47.7	0.3
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°	8097.7	54.5
0°-40°	10751.3	72.4
0°-60°	13831.0	93.1
0°-90°	14854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13889	13889	13889	13889	13889	
5°	13751	13816	13679	13692	13669	###
15°	13309	13054	12128	10416	9624	3757
25°	12424	11533	7175	4603	3291	5727
35°	11136	7987	2173	639	377	6966
45°	9469	4488	318	235	227	7295
55°	7335	932	197	190	148	6539
65°	4657	102	118	98	78	4610
75°	1869	62	46	48	42	2028
85°	124	12	17	22	21	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13888.9	13888.9	13888.9	13888.9	13888.9
2.5°	13792.2	13882.5	13806.4	13874.7	13935.1
5°	13751.0	13815.7	13679.2	13692.0	13669.3
7.5°	13679.9	13695.6	13448.9	13353.7	13307.5
10°	13584.7	13542.8	13149.0	12922.3	12761.0
12.5°	13464.6	13326.0	12775.9	11966.4	11483.8
15°	13308.9	13053.8	12127.7	10415.6	9623.9
17.5°	13123.4	12769.5	11054.5	8680.7	7995.6
20°	12922.3	12455.4	9655.1	7380.8	6715.6
22.5°	12684.9	12053.8	8274.9	6138.5	5225.2
25°	12424.1	11532.8	7174.7	4603.3	3291.3
27.5°	12142.6	10845.6	6156.3	2823.0	1779.6
30°	11815.7	10009.1	5003.5	1584.2	1144.3
32.5°	11496.6	9034.0	3574.2	1055.4	731.3
35°	11136.3	7987.1	2173.4	638.9	376.7
37.5°	10754.6	7035.4	1360.3	347.5	260.1
40°	10350.2	6132.8	922.5	246.6	243.1
42.5°	9918.1	5316.2	577.8	234.5	242.4
45°	9468.9	4487.5	317.7	235.2	227.4
47.5°	8981.4	3587.7	221.7	222.5	221.7
50°	8470.4	2573.5	209.7	219.6	217.5
52.5°	7919.5	1597.7	210.4	214.6	192.6
55°	7334.6	932.5	196.9	190.5	147.8
57.5°	6719.9	581.4	192.6	157.1	132.9
60°	6075.9	307.0	183.4	141.4	113.7
62.5°	5390.1	151.4	147.1	120.8	93.1
65°	4657.3	102.3	118.0	98.1	78.2
67.5°	3949.5	92.4	88.8	80.3	68.2
70°	3231.6	84.6	68.9	70.4	58.3
72.5°	2527.3	76.8	55.4	60.4	49.0
75°	1869.2	61.8	46.2	47.6	41.9
77.5°	1300.6	48.3	36.2	40.5	39.1
80°	784.6	30.6	29.1	33.4	30.6
82.5°	380.2	19.9	22.7	26.3	24.2
85°	124.4	12.1	17.1	22.0	20.6
87.5°	15.6	7.1	14.2	19.2	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)