

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-WG-UNV-L735-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-WG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

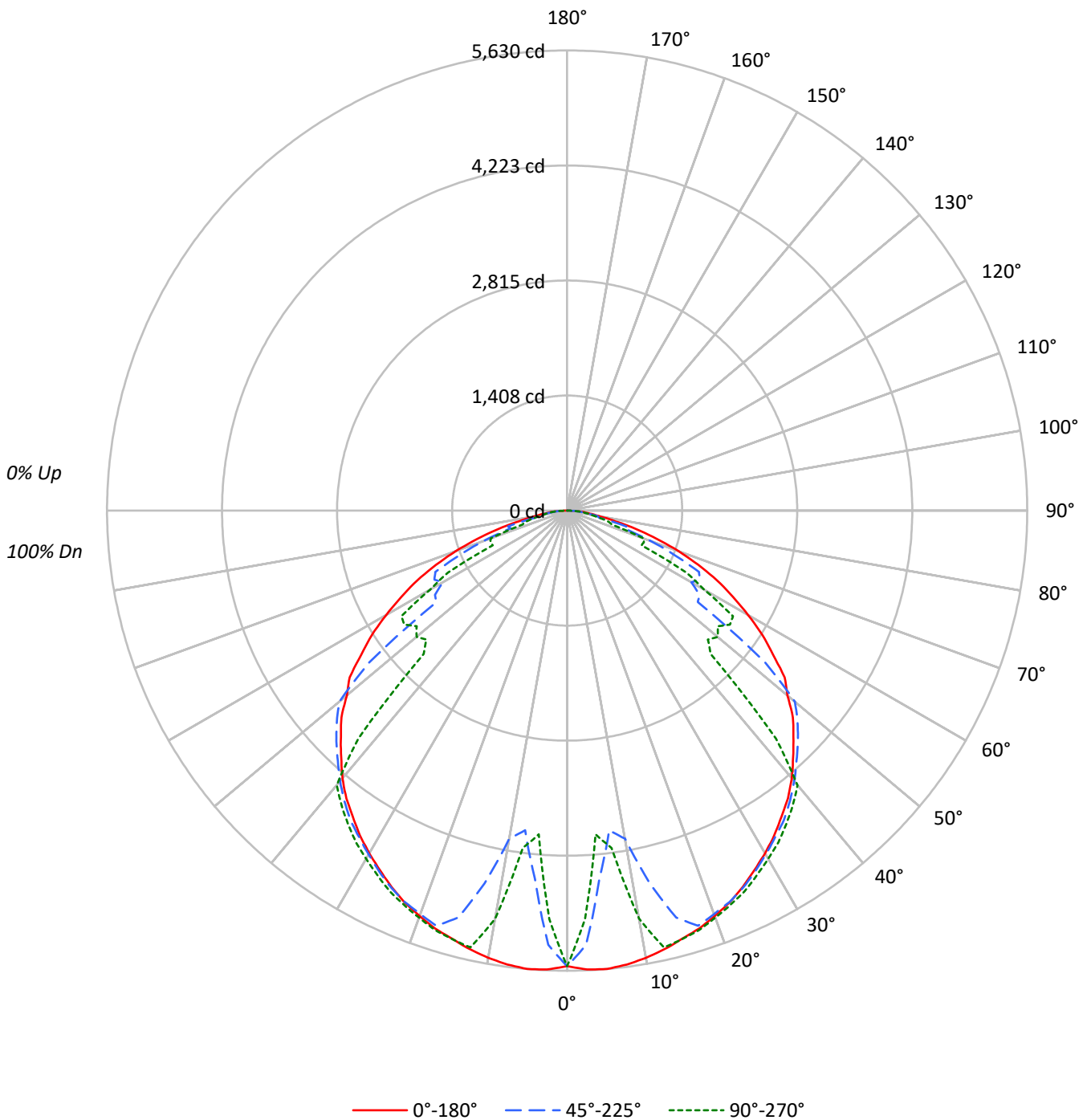
Lumens per Lamp: N/A
Luminaire Lumens: 14766.0 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P#

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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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7499	7499	7499
5°	7604	6108	5372
10°	7590	5571	6929
15°	7557	7180	7563
20°	7557	7523	7589
25°	7543	7560	7629
30°	7521	7546	7644
35°	7510	7593	7681
40°	7511	7592	7701
45°	7452	7598	4721
50°	7367	7613	5032
55°	7212	4578	5703
60°	6880	4719	5223
65°	6446	5665	3195
70°	5692	4292	3917
75°	4535	3901	2716
80°	3124	2820	2334
85°	2993	2603	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.7	3.0
10°-20°	1396.3	9.5
20°-30°	2297.2	15.6
30°-40°	2888.5	19.6
40°-50°	2832.9	19.2
50°-60°	2347.2	15.9
60°-70°	1655.5	11.2
70°-80°	722.3	4.9
80°-90°	180.4	1.2
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°	4139.2	28.0
0°-40°	7027.7	47.6
0°-60°	12207.7	82.7
0°-90°	14766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5574	5574	5574	5574	5574	
5°	5630	5240	4523	4101	3978	535
15°	5425	3768	5154	5446	5430	1534
25°	5081	4649	5092	5126	5139	2342
35°	4572	4569	4623	4653	4677	2865
45°	3916	3928	3993	3536	2481	3023
55°	3074	3175	1951	2219	2431	2751
65°	2025	2144	1780	1369	1004	1991
75°	872	855	750	490	522	936
85°	194	173	169	161	160	201
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5573.7	5573.7	5573.7	5573.7	5573.7
2.5°	5619.7	5503.0	5317.8	5084.5	5001.9
5°	5629.7	5239.8	4522.7	4100.8	3977.5
7.5°	5601.0	4761.9	3942.8	4031.5	4162.1
10°	5555.7	4342.0	4077.5	4797.2	5071.2
12.5°	5497.7	3968.8	4671.3	5419.1	5473.7
15°	5425.1	3767.6	5154.5	5446.4	5429.7
17.5°	5363.7	3885.5	5327.8	5391.7	5379.7
20°	5277.8	4120.8	5253.8	5305.1	5300.4
22.5°	5191.1	4399.4	5183.8	5220.5	5220.5
25°	5081.2	4649.3	5092.5	5126.5	5139.1
27.5°	4960.5	4793.2	4978.5	5006.5	5029.2
30°	4841.2	4813.9	4857.2	4893.2	4919.9
32.5°	4715.3	4704.6	4738.6	4776.6	4810.6
35°	4572.0	4569.3	4622.6	4653.3	4676.6
37.5°	4437.4	4428.0	4477.3	4520.0	4538.0
40°	4276.1	4276.1	4322.7	4366.0	4384.7
42.5°	4092.1	4118.1	4154.1	4198.8	3781.5
45°	3916.2	3928.2	3992.8	3536.3	2481.3
47.5°	3746.9	3762.2	3823.5	2273.3	2335.3
50°	3519.6	3588.9	3636.9	2266.7	2404.0
52.5°	3353.7	3383.7	3053.1	2244.0	2321.3
55°	3074.4	3175.1	1951.4	2218.7	2431.3
57.5°	2835.8	2909.1	1918.8	2273.3	2405.3
60°	2556.6	2668.5	1753.5	2193.4	1940.8
62.5°	2288.7	2395.3	1830.8	1726.2	1643.5
65°	2024.7	2144.0	1779.5	1368.9	1003.7
67.5°	1735.5	1624.2	1419.6	964.4	1015.0
70°	1446.9	1134.3	1091.0	1078.3	995.7
72.5°	1150.3	827.8	724.5	809.1	579.2
75°	872.4	855.1	750.4	490.5	522.5
77.5°	605.2	617.2	401.9	478.5	397.2
80°	403.2	349.2	363.9	305.2	301.2
82.5°	279.3	285.2	239.3	231.9	235.3
85°	193.9	172.6	168.6	161.3	160.0
87.5°	64.6	75.3	70.0	63.3	67.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)