

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-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 (P23762)
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-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

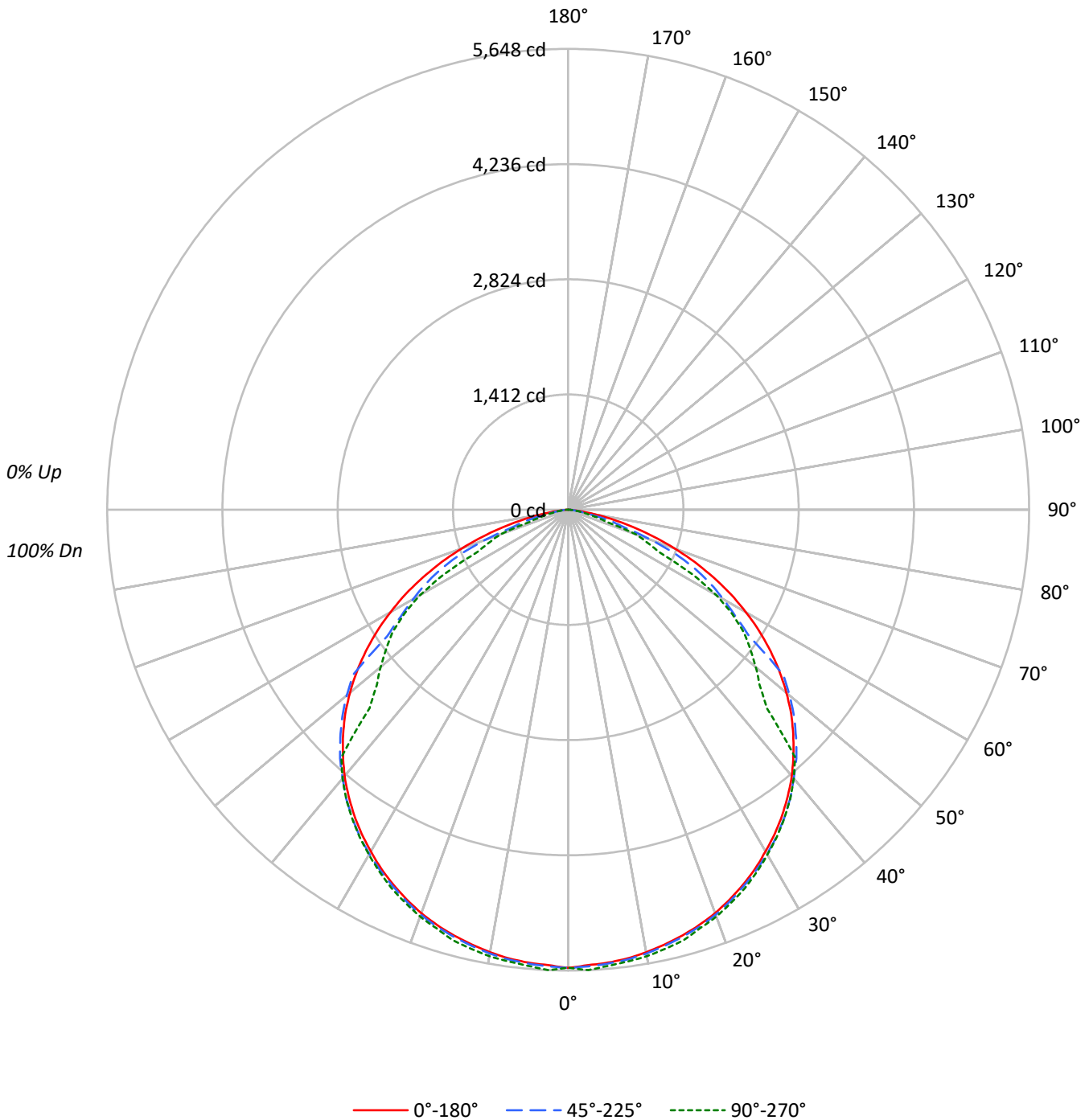
Lumens per Lamp: N/A
Luminaire Lumens: 15179.0 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7555	7555	7555
5°	7527	7544	7581
10°	7526	7548	7592
15°	7526	7549	7610
20°	7535	7564	7599
25°	7527	7555	7601
30°	7512	7568	7585
35°	7509	7577	7583
40°	7485	7552	7552
45°	7421	7511	6544
50°	7307	7417	6279
55°	7099	6349	6168
60°	6766	5902	5635
65°	6257	5478	3902
70°	5449	4263	3477
75°	4304	2861	1869
80°	2770	1367	1165
85°	1139	834	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.6	3.5
10°-20°	1535.1	10.1
20°-30°	2353.6	15.5
30°-40°	2884.7	19.0
40°-50°	2965.7	19.5
50°-60°	2531.1	16.7
60°-70°	1673.3	11.0
70°-80°	620.0	4.1
80°-90°	82.9	0.5
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°	4421.3	29.1
0°-40°	7306.0	48.1
0°-60°	12802.8	84.3
0°-90°	15179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5615	5615	5615	5615	5615	
5°	5573	5612	5585	5607	5613	530
15°	5403	5436	5419	5460	5463	1526
25°	5070	5096	5089	5135	5120	2338
35°	4571	4603	4613	4642	4617	2859
45°	3900	3939	3947	3941	3439	3006
55°	3026	3082	2706	2628	2629	2700
65°	1965	1982	1721	1415	1226	1938
75°	828	725	550	370	360	888
85°	74	53	54	59	60	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5614.7	5614.7	5614.7	5614.7	5614.7
2.5°	5587.3	5622.2	5601.7	5627.6	5647.5
5°	5573.0	5611.9	5585.3	5607.1	5612.6
7.5°	5548.3	5584.6	5560.0	5588.7	5584.6
10°	5508.7	5541.5	5524.4	5554.5	5556.5
12.5°	5458.1	5490.9	5475.2	5512.1	5511.4
15°	5402.7	5435.5	5419.1	5460.2	5462.9
17.5°	5337.8	5367.9	5355.6	5393.2	5378.1
20°	5262.6	5288.6	5282.4	5318.0	5307.0
22.5°	5170.3	5197.0	5190.8	5231.8	5215.4
25°	5069.8	5096.5	5088.9	5134.7	5119.7
27.5°	4961.1	4986.4	4985.7	5028.8	5005.5
30°	4835.3	4868.8	4870.9	4909.1	4881.8
32.5°	4710.9	4742.3	4751.2	4779.3	4756.0
35°	4571.4	4602.9	4613.1	4641.8	4616.6
37.5°	4421.0	4447.7	4466.2	4487.3	4467.5
40°	4261.8	4285.7	4299.4	4325.3	4299.4
42.5°	4084.0	4118.2	4137.3	4155.8	4113.4
45°	3900.1	3939.1	3947.3	3941.1	3439.3
47.5°	3705.3	3747.7	3752.4	3272.5	3180.2
50°	3490.6	3543.9	3543.3	3024.4	2999.8
52.5°	3267.1	3318.3	3316.3	2830.2	2813.8
55°	3026.4	3081.8	2706.5	2627.9	2629.2
57.5°	2781.0	2820.7	2428.3	2431.7	2386.6
60°	2514.4	2552.0	2193.1	2171.9	2094.0
62.5°	2247.1	2262.8	1965.4	1862.2	1713.9
65°	1965.4	1981.8	1720.7	1415.1	1225.7
67.5°	1676.3	1692.7	1428.1	1052.8	1038.4
70°	1385.0	1251.0	1083.6	877.1	883.9
72.5°	1097.9	961.2	708.2	679.5	490.8
75°	827.9	725.3	550.3	369.8	359.6
77.5°	576.3	499.7	294.6	252.3	235.9
80°	357.5	250.9	176.4	156.6	150.4
82.5°	181.2	144.2	95.7	95.7	95.7
85°	73.8	52.6	54.0	58.8	59.5
87.5°	15.7	21.2	26.0	26.7	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)