

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-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 (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-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

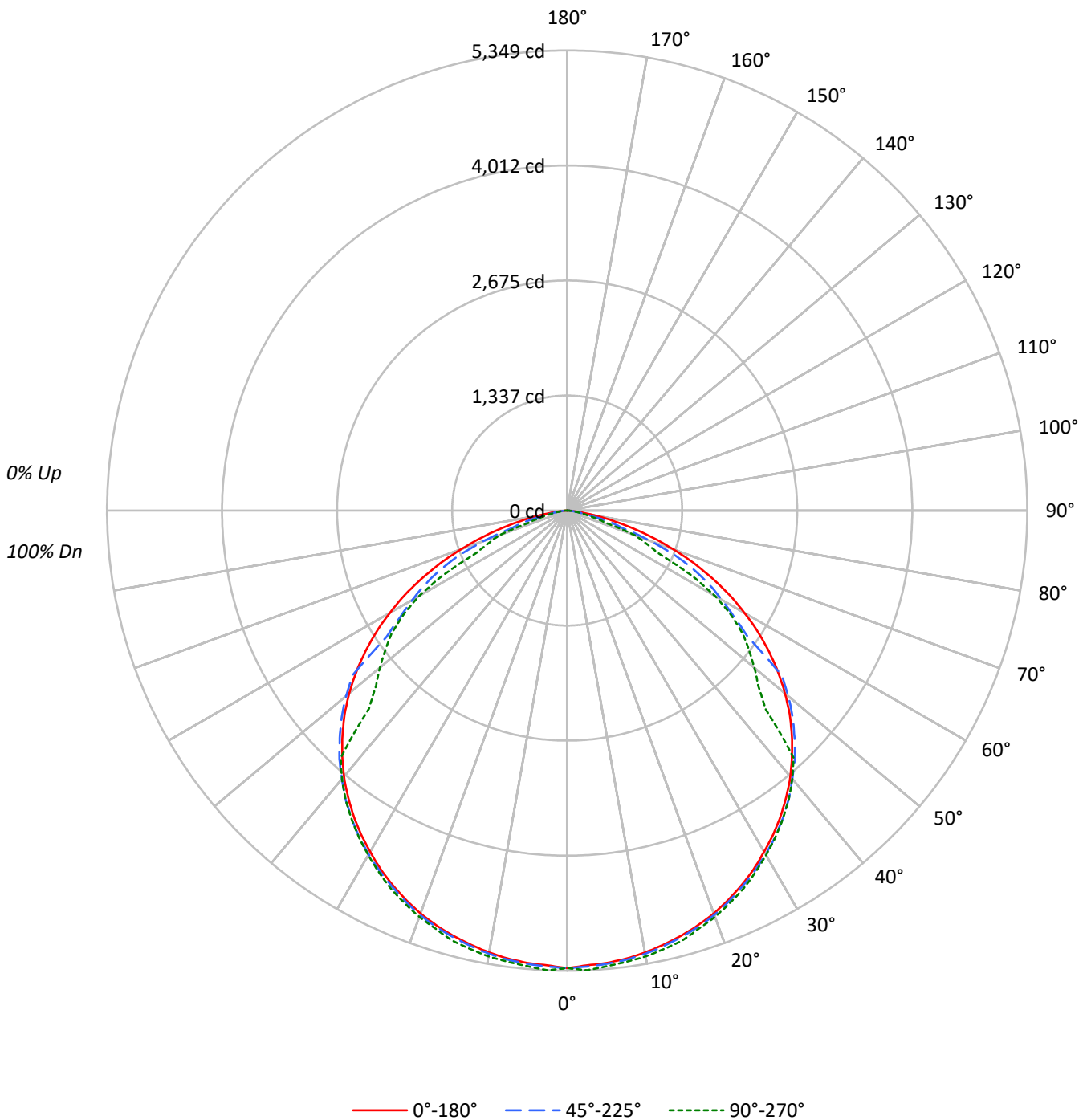
Lumens per Lamp: N/A
Luminaire Lumens: 14376.0 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7155	7155	7155
5°	7129	7145	7180
10°	7128	7148	7190
15°	7128	7149	7207
20°	7137	7163	7197
25°	7128	7155	7199
30°	7115	7167	7183
35°	7112	7176	7182
40°	7089	7152	7152
45°	7029	7114	6198
50°	6920	7024	5947
55°	6724	6013	5841
60°	6408	5589	5337
65°	5926	5188	3696
70°	5161	4037	3294
75°	4076	2709	1771
80°	2624	1294	1103
85°	1079	789	869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.4	3.5
10°-20°	1453.9	10.1
20°-30°	2229.1	15.5
30°-40°	2732.1	19.0
40°-50°	2808.8	19.5
50°-60°	2397.2	16.7
60°-70°	1584.8	11.0
70°-80°	587.2	4.1
80°-90°	78.5	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°	4187.4	29.1
0°-40°	6919.5	48.1
0°-60°	12125.5	84.3
0°-90°	14376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5318	5318	5318	5318	5318	
5°	5278	5315	5290	5310	5316	502
15°	5117	5148	5132	5171	5174	1445
25°	4802	4827	4820	4863	4849	2214
35°	4330	4359	4369	4396	4372	2708
45°	3694	3731	3738	3733	3257	2847
55°	2866	2919	2563	2489	2490	2558
65°	1862	1877	1630	1340	1161	1835
75°	784	687	521	350	341	841
85°	70	50	51	56	56	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5317.6	5317.6	5317.6	5317.6	5317.6
2.5°	5291.7	5324.8	5305.3	5329.9	5348.7
5°	5278.1	5315.0	5289.8	5310.5	5315.7
7.5°	5254.8	5289.1	5265.8	5293.0	5289.1
10°	5217.3	5248.3	5232.2	5260.7	5262.6
12.5°	5169.4	5200.4	5185.5	5220.5	5219.9
15°	5116.9	5148.0	5132.5	5171.3	5173.9
17.5°	5055.4	5083.9	5072.2	5107.8	5093.6
20°	4984.2	5008.8	5003.0	5036.6	5026.3
22.5°	4896.8	4922.0	4916.2	4955.0	4939.5
25°	4801.6	4826.8	4819.7	4863.1	4848.9
27.5°	4698.7	4722.6	4722.0	4762.8	4740.7
30°	4579.5	4611.2	4613.2	4649.4	4623.5
32.5°	4461.7	4491.5	4499.9	4526.4	4504.4
35°	4329.6	4359.4	4369.1	4396.3	4372.3
37.5°	4187.2	4212.4	4229.9	4250.0	4231.2
40°	4036.3	4059.0	4071.9	4096.5	4071.9
42.5°	3868.0	3900.3	3918.5	3935.9	3895.8
45°	3693.8	3730.7	3738.5	3732.6	3257.4
47.5°	3509.3	3549.4	3553.9	3099.4	3012.0
50°	3306.0	3356.5	3355.8	2864.4	2841.1
52.5°	3094.2	3142.8	3140.9	2680.5	2665.0
55°	2866.3	2918.8	2563.3	2488.9	2490.1
57.5°	2633.9	2671.4	2299.8	2303.0	2260.3
60°	2381.4	2417.0	2077.1	2057.0	1983.2
62.5°	2128.2	2143.1	1861.5	1763.7	1623.2
65°	1861.5	1877.0	1629.7	1340.3	1160.9
67.5°	1587.6	1603.1	1352.6	997.1	983.5
70°	1311.8	1184.9	1026.2	830.7	837.2
72.5°	1039.8	910.3	670.8	643.6	464.9
75°	784.1	687.0	521.2	350.3	340.6
77.5°	545.8	473.3	279.1	238.9	223.4
80°	338.6	237.6	167.0	148.3	142.4
82.5°	171.6	136.6	90.6	90.6	90.6
85°	69.9	49.9	51.1	55.7	56.3
87.5°	14.9	20.1	24.6	25.3	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)