

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-LD5-18HE-W-CL-UNV-L835-ED2-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-LD5-18HE-W-CL-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

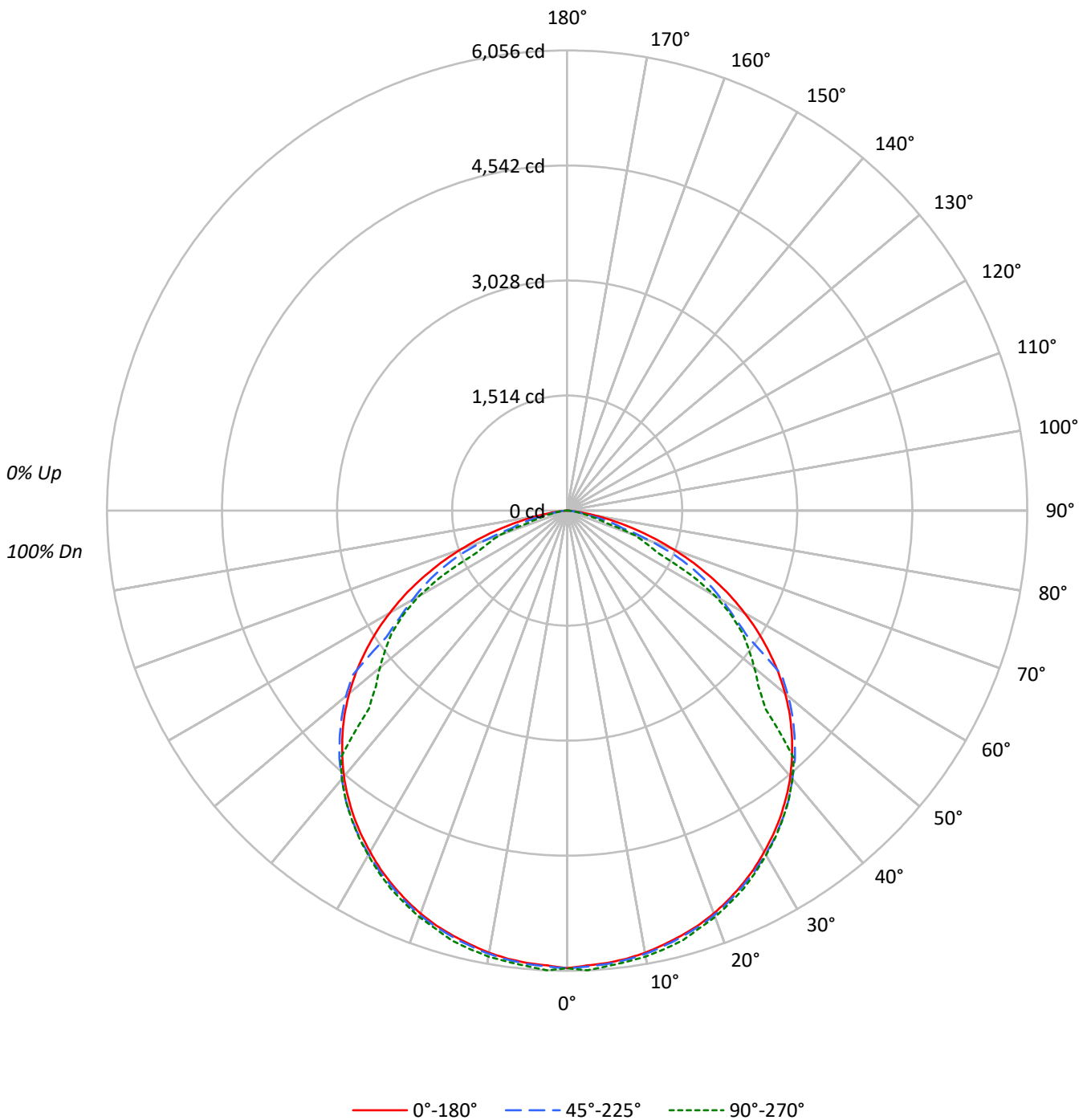
Lumens per Lamp: N/A
Luminaire Lumens: 16278.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	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°	8101	8101	8101
5°	8072	8090	8129
10°	8071	8094	8141
15°	8071	8095	8160
20°	8081	8111	8149
25°	8072	8102	8151
30°	8056	8115	8134
35°	8052	8126	8132
40°	8027	8098	8098
45°	7959	8055	7018
50°	7836	7954	6734
55°	7613	6808	6614
60°	7256	6329	6043
65°	6710	5875	4185
70°	5843	4571	3729
75°	4615	3068	2005
80°	2971	1465	1250
85°	1223	894	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.2	3.5
10°-20°	1646.3	10.1
20°-30°	2524.0	15.5
30°-40°	3093.5	19.0
40°-50°	3180.4	19.5
50°-60°	2714.3	16.7
60°-70°	1794.5	11.0
70°-80°	664.8	4.1
80°-90°	88.9	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°	4741.5	29.1
0°-40°	7835.0	48.1
0°-60°	13729.7	84.3
0°-90°	16278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6021	6021	6021	6021	6021	
5°	5976	6018	5990	6013	6019	568
15°	5794	5829	5812	5856	5858	1637
25°	5437	5466	5457	5506	5490	2507
35°	4902	4936	4947	4978	4951	3066
45°	4182	4224	4233	4226	3688	3223
55°	3246	3305	2902	2818	2820	2896
65°	2108	2125	1845	1518	1314	2078
75°	888	778	590	397	386	952
85°	79	56	58	63	64	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6021.2	6021.2	6021.2	6021.2	6021.2
2.5°	5991.8	6029.2	6007.2	6035.1	6056.4
5°	5976.5	6018.2	5989.6	6013.1	6019.0
7.5°	5950.1	5988.9	5962.5	5993.3	5988.9
10°	5907.5	5942.7	5924.4	5956.7	5958.9
12.5°	5853.3	5888.5	5871.6	5911.2	5910.5
15°	5793.9	5829.1	5811.5	5855.5	5858.4
17.5°	5724.3	5756.5	5743.3	5783.6	5767.5
20°	5643.6	5671.5	5664.9	5703.0	5691.3
22.5°	5544.6	5573.2	5566.6	5610.6	5593.0
25°	5436.9	5465.5	5457.4	5506.5	5490.4
27.5°	5320.3	5347.4	5346.7	5392.9	5368.0
30°	5185.4	5221.3	5223.5	5264.6	5235.3
32.5°	5052.0	5085.7	5095.2	5125.3	5100.4
35°	4902.4	4936.1	4947.1	4977.9	4950.8
37.5°	4741.1	4769.7	4789.5	4812.2	4791.0
40°	4570.3	4596.0	4610.6	4638.5	4610.6
42.5°	4379.7	4416.4	4436.9	4456.7	4411.2
45°	4182.5	4224.3	4233.1	4226.5	3688.4
47.5°	3973.5	4019.0	4024.1	3509.5	3410.5
50°	3743.3	3800.5	3799.8	3243.4	3217.0
52.5°	3503.6	3558.6	3556.4	3035.1	3017.6
55°	3245.6	3304.9	2902.4	2818.1	2819.6
57.5°	2982.4	3024.9	2604.1	2607.7	2559.3
60°	2696.4	2736.8	2351.9	2329.1	2245.6
62.5°	2409.8	2426.6	2107.7	1997.0	1837.9
65°	2107.7	2125.3	1845.3	1517.6	1314.5
67.5°	1797.6	1815.2	1531.5	1129.0	1113.6
70°	1485.3	1341.6	1162.0	940.6	947.9
72.5°	1177.4	1030.8	759.5	728.7	526.4
75°	887.8	777.8	590.2	396.6	385.6
77.5°	618.0	535.9	316.0	270.5	252.9
80°	383.4	269.1	189.1	167.9	161.3
82.5°	194.3	154.7	102.6	102.6	102.6
85°	79.2	56.5	57.9	63.0	63.8
87.5°	16.9	22.7	27.9	28.6	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)