

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-L840-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-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

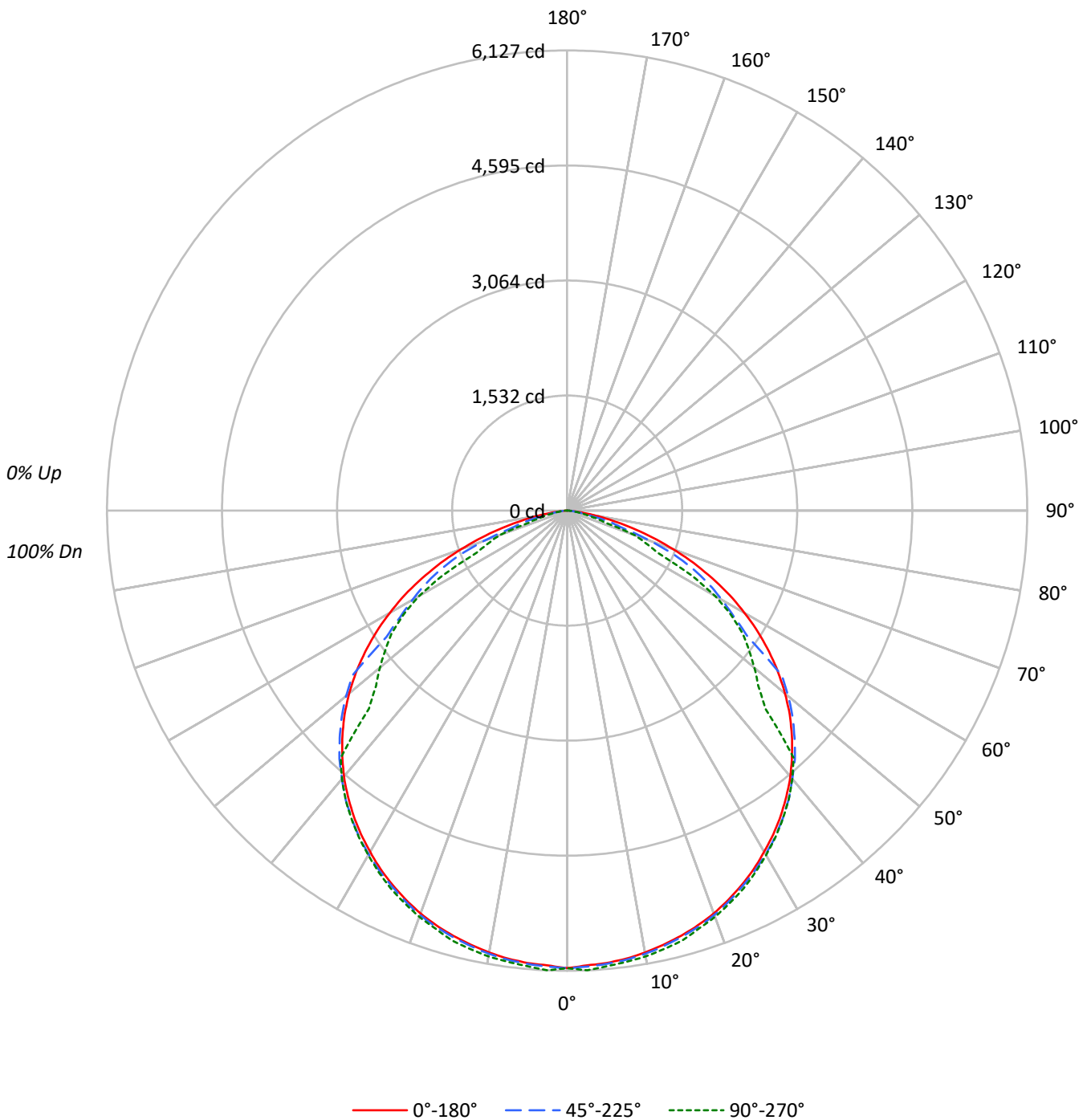
Lumens per Lamp: N/A
Luminaire Lumens: 16467.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8196	8196	8196
5°	8166	8184	8224
10°	8165	8188	8236
15°	8164	8189	8255
20°	8175	8205	8244
25°	8165	8196	8246
30°	8150	8210	8228
35°	8146	8220	8226
40°	8121	8192	8192
45°	8051	8148	7100
50°	7927	8046	6812
55°	7702	6887	6691
60°	7340	6402	6113
65°	6788	5943	4234
70°	5911	4624	3772
75°	4669	3104	2028
80°	3006	1482	1265
85°	1237	905	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	3.5
10°-20°	1665.4	10.1
20°-30°	2553.3	15.5
30°-40°	3129.5	19.0
40°-50°	3217.3	19.5
50°-60°	2745.8	16.7
60°-70°	1815.3	11.0
70°-80°	672.6	4.1
80°-90°	89.9	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°	4796.5	29.1
0°-40°	7926.0	48.1
0°-60°	13889.2	84.3
0°-90°	16467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6091	6091	6091	6091	6091	
5°	6046	6088	6059	6083	6089	575
15°	5861	5897	5879	5924	5926	1656
25°	5500	5529	5521	5570	5554	2536
35°	4959	4994	5005	5036	5008	3102
45°	4231	4273	4282	4276	3731	3261
55°	3283	3343	2936	2851	2852	2930
65°	2132	2150	1867	1535	1330	2102
75°	898	787	597	401	390	964
85°	80	57	59	64	64	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6091.1	6091.1	6091.1	6091.1	6091.1
2.5°	6061.4	6099.2	6077.0	6105.2	6126.7
5°	6045.8	6088.1	6059.2	6082.9	6088.9
7.5°	6019.1	6058.4	6031.8	6062.9	6058.4
10°	5976.1	6011.7	5993.2	6025.8	6028.0
12.5°	5921.2	5956.8	5939.8	5979.8	5979.1
15°	5861.2	5896.8	5879.0	5923.5	5926.4
17.5°	5790.7	5823.3	5810.0	5850.8	5834.5
20°	5709.1	5737.3	5730.6	5769.2	5757.3
22.5°	5609.0	5637.9	5631.3	5675.8	5658.0
25°	5500.0	5528.9	5520.8	5570.5	5554.1
27.5°	5382.1	5409.5	5408.8	5455.5	5430.3
30°	5245.6	5282.0	5284.2	5325.7	5296.0
32.5°	5110.6	5144.7	5154.4	5184.8	5159.6
35°	4959.3	4993.5	5004.6	5035.7	5008.3
37.5°	4796.2	4825.1	4845.1	4868.1	4846.6
40°	4623.4	4649.3	4664.2	4692.4	4664.2
42.5°	4430.6	4467.6	4488.4	4508.4	4462.4
45°	4231.1	4273.3	4282.2	4275.5	3731.2
47.5°	4019.7	4065.7	4070.9	3550.2	3450.1
50°	3786.8	3844.7	3843.9	3281.0	3254.3
52.5°	3544.3	3599.9	3597.7	3070.4	3052.6
55°	3283.2	3343.3	2936.1	2850.9	2852.3
57.5°	3017.0	3060.0	2634.3	2638.0	2589.1
60°	2727.7	2768.5	2379.2	2356.2	2271.6
62.5°	2437.8	2454.8	2132.2	2020.2	1859.3
65°	2132.2	2150.0	1866.7	1535.2	1329.8
67.5°	1818.5	1836.3	1549.3	1142.1	1126.5
70°	1502.6	1357.2	1175.5	951.5	958.9
72.5°	1191.1	1042.7	768.3	737.2	532.5
75°	898.1	786.9	597.0	401.2	390.1
77.5°	625.2	542.1	319.6	273.7	255.9
80°	387.9	272.2	191.3	169.8	163.2
82.5°	196.5	156.5	103.8	103.8	103.8
85°	80.1	57.1	58.6	63.8	64.5
87.5°	17.1	23.0	28.2	28.9	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)