

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

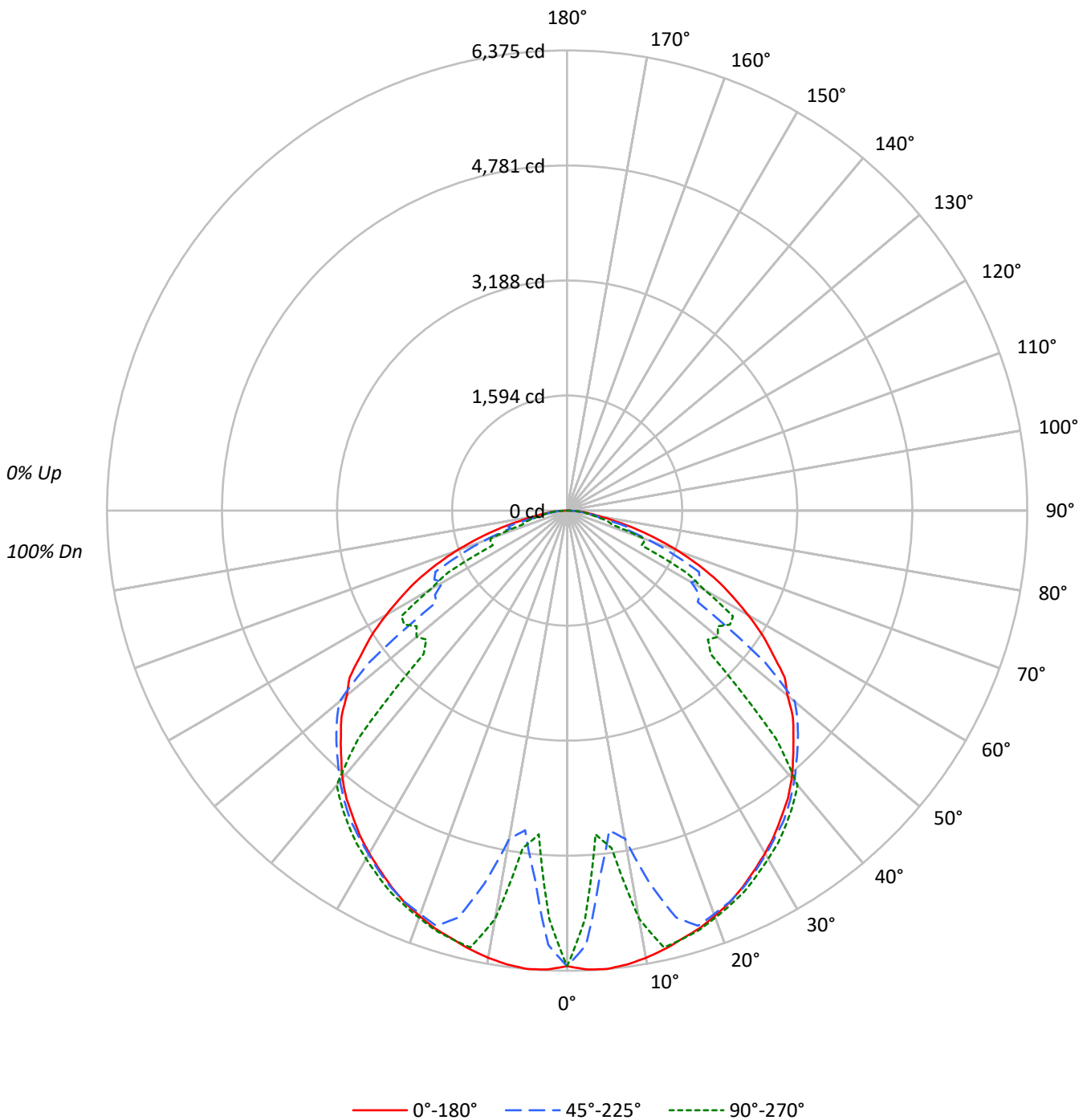
Lumens per Lamp: N/A
Luminaire Lumens: 16720.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8492	8492	8492
5°	8610	6917	6083
10°	8595	6308	7845
15°	8557	8130	8564
20°	8557	8518	8594
25°	8542	8561	8639
30°	8517	8545	8655
35°	8503	8598	8698
40°	8504	8597	8720
45°	8438	8603	5346
50°	8342	8620	5698
55°	8166	5183	6458
60°	7790	5343	5914
65°	7299	6415	3618
70°	6445	4860	4436
75°	5136	4418	3076
80°	3538	3192	2643
85°	3390	2947	2796



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	3.0
10°-20°	1581.1	9.5
20°-30°	2601.2	15.6
30°-40°	3270.7	19.6
40°-50°	3207.7	19.2
50°-60°	2657.8	15.9
60°-70°	1874.6	11.2
70°-80°	817.9	4.9
80°-90°	204.3	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°	4687.0	28.0
0°-40°	7957.7	47.6
0°-60°	13823.2	82.7
0°-90°	16720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6311	6311	6311	6311	6311	
5°	6375	5933	5121	4643	4504	605
15°	6143	4266	5837	6167	6148	1737
25°	5754	5264	5766	5805	5819	2652
35°	5177	5174	5234	5269	5296	3244
45°	4434	4448	4521	4004	2810	3423
55°	3481	3595	2210	2512	2753	3115
65°	2293	2428	2015	1550	1136	2254
75°	988	968	850	555	592	1059
85°	220	196	191	183	181	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6311.3	6311.3	6311.3	6311.3	6311.3
2.5°	6363.3	6231.3	6021.5	5757.3	5663.8
5°	6374.6	5933.2	5121.2	4643.4	4503.8
7.5°	6342.2	5392.1	4464.6	4565.0	4712.9
10°	6290.9	4916.6	4617.0	5432.1	5742.2
12.5°	6225.2	4494.0	5289.4	6136.2	6198.1
15°	6143.0	4266.1	5836.6	6167.1	6148.2
17.5°	6073.5	4399.7	6032.8	6105.2	6091.6
20°	5976.2	4666.1	5949.0	6007.1	6001.8
22.5°	5878.1	4981.5	5869.8	5911.3	5911.3
25°	5753.6	5264.5	5766.4	5804.9	5819.2
27.5°	5617.0	5427.5	5637.3	5669.0	5694.7
30°	5481.9	5450.9	5500.0	5540.7	5570.9
32.5°	5339.2	5327.2	5365.7	5408.7	5447.2
35°	5177.0	5174.0	5234.4	5269.1	5295.5
37.5°	5024.6	5014.0	5069.8	5118.1	5138.5
40°	4841.9	4841.9	4894.8	4943.8	4964.9
42.5°	4633.6	4663.1	4703.8	4754.4	4282.0
45°	4434.4	4448.0	4521.2	4004.2	2809.6
47.5°	4242.7	4260.1	4329.5	2574.2	2644.3
50°	3985.4	4063.9	4118.2	2566.6	2722.1
52.5°	3797.5	3831.4	3457.1	2541.0	2628.5
55°	3481.3	3595.2	2209.7	2512.3	2753.0
57.5°	3211.1	3294.1	2172.7	2574.2	2723.6
60°	2894.9	3021.7	1985.5	2483.6	2197.6
62.5°	2591.5	2712.3	2073.1	1954.6	1861.0
65°	2292.7	2427.8	2015.0	1550.1	1136.5
67.5°	1965.1	1839.1	1607.4	1092.0	1149.4
70°	1638.4	1284.4	1235.4	1221.0	1127.5
72.5°	1302.6	937.3	820.3	916.2	655.8
75°	987.9	968.2	849.8	555.4	591.7
77.5°	685.2	698.8	455.1	541.8	449.8
80°	456.6	395.4	412.0	345.6	341.1
82.5°	316.2	323.0	270.9	262.6	266.4
85°	219.6	195.5	190.9	182.6	181.1
87.5°	73.2	85.3	79.2	71.7	76.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)