

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-AWG-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 (P23764)
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-AWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

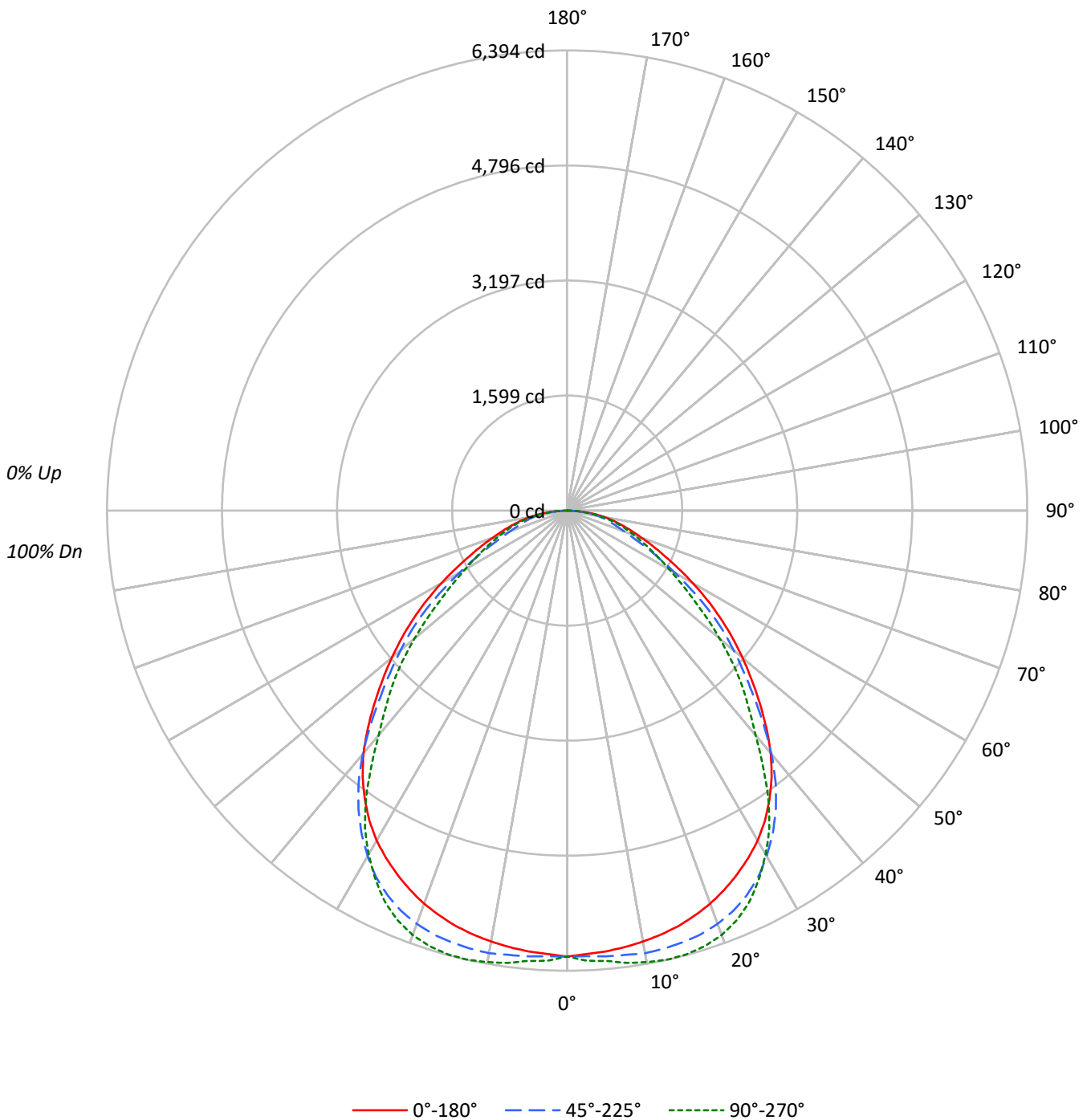
Lumens per Lamp: N/A
Luminaire Lumens: 15360.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8337	8337	8337
5°	8305	8397	8483
10°	8307	8532	8704
15°	8323	8651	8894
20°	8321	8750	8985
25°	8285	8761	8903
30°	8224	8615	8570
35°	8049	8304	8001
40°	7735	7757	7153
45°	7199	6993	6539
50°	6654	6324	5794
55°	6092	5604	5000
60°	5432	4652	4416
65°	4764	3828	4057
70°	4301	3297	3863
75°	4111	3232	3852
80°	4144	3422	3759
85°	3671	3134	3281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.2	3.9
10°-20°	1754.0	11.4
20°-30°	2690.4	17.5
30°-40°	3094.4	20.1
40°-50°	2822.3	18.4
50°-60°	2115.3	13.8
60°-70°	1301.2	8.5
70°-80°	745.7	4.9
80°-90°	241.4	1.6
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°	5039.7	32.8
0°-40°	8134.1	53.0
0°-60°	13071.7	85.1
0°-90°	15360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6196	6196	6196	6196	6196	
5°	6149	6211	6217	6269	6281	585
15°	5975	6108	6210	6343	6385	1687
25°	5581	5741	5901	5992	5997	2572
35°	4900	4996	5055	4972	4871	3056
45°	3783	3866	3675	3486	3437	2920
55°	2597	2500	2389	2178	2132	2320
65°	1496	1338	1202	1240	1274	1505
75°	791	709	622	712	741	846
85°	238	224	203	214	212	265
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6196.1	6196.1	6196.1	6196.1	6196.1
2.5°	6166.9	6211.1	6196.9	6233.2	6260.1
5°	6148.7	6211.1	6217.4	6268.8	6280.6
7.5°	6117.9	6199.3	6227.7	6318.6	6339.1
10°	6080.0	6177.9	6245.1	6343.0	6370.7
12.5°	6034.1	6147.9	6233.2	6354.1	6393.6
15°	5974.9	6107.6	6210.3	6343.0	6384.9
17.5°	5899.8	6053.9	6174.0	6304.3	6347.8
20°	5811.4	5974.1	6110.8	6244.3	6275.1
22.5°	5704.7	5868.2	6023.9	6144.0	6160.5
25°	5580.7	5741.0	5901.4	5992.3	5997.0
27.5°	5445.6	5594.9	5745.0	5794.0	5772.6
30°	5293.1	5426.6	5545.1	5555.4	5515.9
32.5°	5112.2	5232.3	5316.8	5294.7	5228.3
35°	4900.5	4996.1	5055.3	4972.4	4871.2
37.5°	4668.2	4740.1	4759.8	4579.7	4464.4
40°	4403.6	4465.2	4416.2	4165.8	4072.5
42.5°	4098.6	4169.7	4044.1	3796.8	3739.9
45°	3783.4	3865.5	3675.2	3485.6	3436.6
47.5°	3474.5	3549.5	3333.9	3181.4	3108.7
50°	3179.0	3211.4	3021.0	2848.8	2768.2
52.5°	2888.3	2855.9	2720.8	2506.7	2435.6
55°	2596.8	2500.4	2389.0	2178.1	2131.5
57.5°	2304.5	2170.2	2048.5	1886.6	1868.4
60°	2018.5	1853.4	1728.6	1632.2	1640.9
62.5°	1745.9	1577.7	1444.1	1413.3	1446.5
65°	1496.3	1338.3	1202.4	1239.5	1274.3
67.5°	1288.5	1136.8	998.6	1093.4	1121.0
70°	1093.4	970.9	838.2	960.7	982.0
72.5°	937.7	833.5	718.1	837.4	855.6
75°	790.8	708.6	621.7	711.8	741.0
77.5°	662.8	594.9	535.6	588.6	620.2
80°	534.8	477.2	441.6	465.3	485.1
82.5°	391.8	354.7	328.6	338.9	342.1
85°	237.8	224.4	203.0	214.1	212.5
87.5°	78.2	89.3	94.0	84.5	79.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)