

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-FLI-UNV-L735-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 (P26703)
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-FLI-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

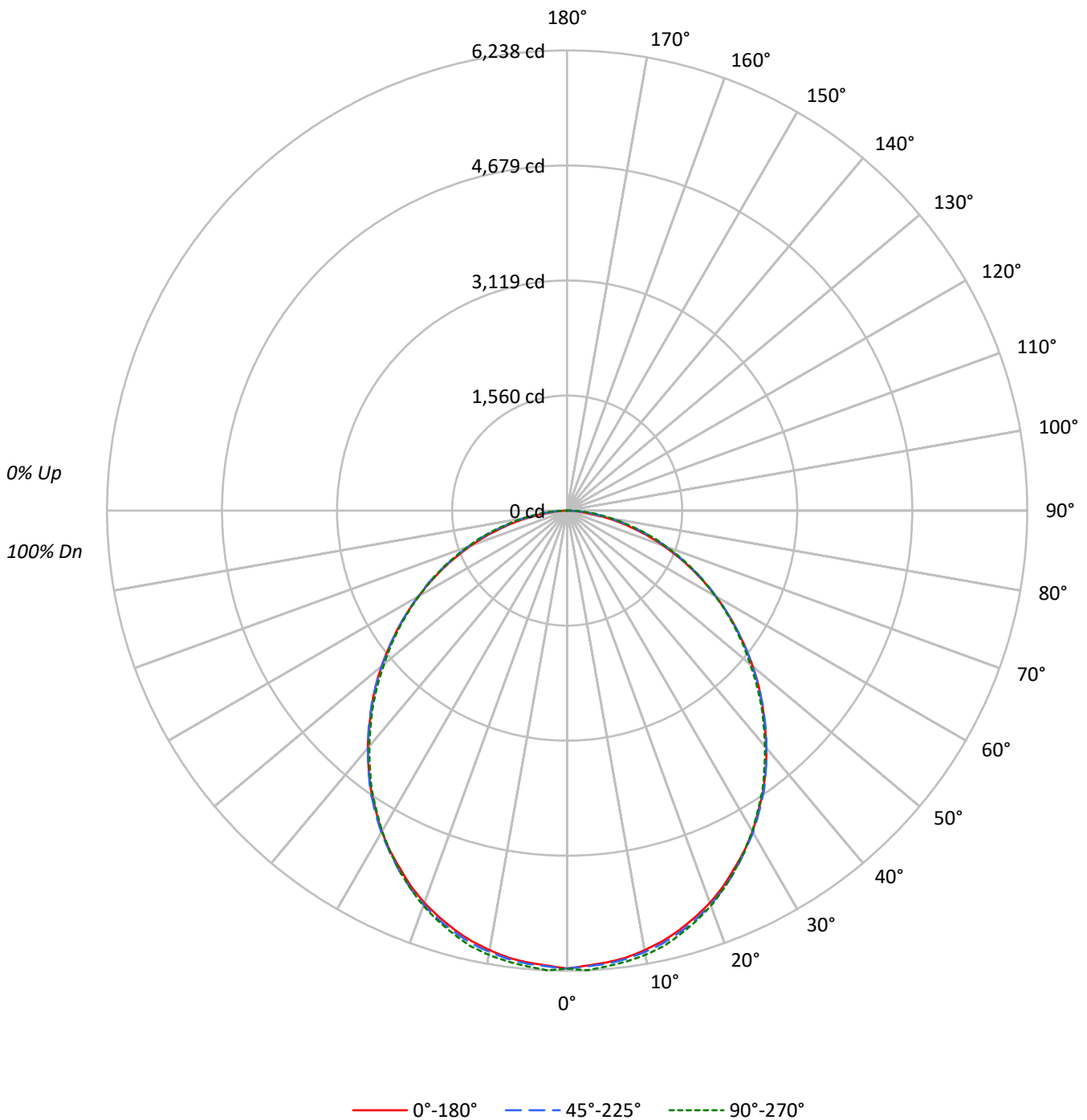
Lumens per Lamp: N/A
Luminaire Lumens: 16216.0 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	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	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8353	8353	8353
5°	8305	8329	8376
10°	8267	8301	8355
15°	8195	8239	8279
20°	8102	8141	8165
25°	7952	7997	7985
30°	7805	7826	7794
35°	7612	7632	7583
40°	7383	7383	7327
45°	7125	7145	7072
50°	6880	6869	6783
55°	6583	6583	6524
60°	6264	6271	6247
65°	5904	5962	5978
70°	5453	5602	5608
75°	4819	5131	5211
80°	3952	4493	4747
85°	2743	3773	4265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.1	3.6
10°-20°	1670.2	10.3
20°-30°	2482.1	15.3
30°-40°	2902.2	17.9
40°-50°	2893.5	17.8
50°-60°	2510.5	15.5
60°-70°	1854.3	11.4
70°-80°	1038.2	6.4
80°-90°	277.0	1.7
90°-100°	0.8	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°	4739.4	29.2
0°-40°	7641.6	47.1
0°-60°	13045.6	80.4
0°-90°	16215.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	16216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6208	6208	6208	6208	6208	
5°	6149	6188	6166	6194	6202	584
15°	5883	5924	5915	5943	5944	1659
25°	5356	5399	5387	5399	5379	2470
35°	4634	4675	4646	4645	4617	2895
45°	3744	3784	3755	3739	3716	2891
55°	2806	2826	2806	2802	2781	2509
65°	1854	1872	1873	1882	1878	1834
75°	927	955	987	994	1002	987
85°	178	215	244	266	276	216
90°	0	4	5	11	10	7
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6207.9	6207.9	6207.9	6207.9	6207.9
2.5°	6174.0	6210.7	6185.0	6209.5	6237.9
5°	6149.1	6187.8	6166.5	6193.7	6201.6
7.5°	6112.8	6150.3	6129.8	6157.0	6165.3
10°	6051.2	6091.9	6075.7	6106.5	6115.2
12.5°	5979.4	6017.7	6007.0	6042.9	6048.8
15°	5883.0	5924.1	5915.0	5943.4	5943.8
17.5°	5776.4	5815.1	5808.4	5830.5	5829.7
20°	5658.4	5699.9	5685.6	5709.7	5702.2
22.5°	5518.7	5562.9	5545.1	5565.2	5546.3
25°	5356.4	5399.4	5386.8	5398.6	5378.9
27.5°	5199.3	5238.8	5212.7	5226.9	5206.0
30°	5024.0	5057.5	5037.4	5042.2	5016.9
32.5°	4827.0	4866.9	4842.4	4841.6	4814.8
35°	4634.3	4675.0	4646.2	4645.4	4616.6
37.5°	4421.2	4459.1	4425.1	4427.1	4393.5
40°	4203.6	4236.4	4203.6	4202.1	4171.3
42.5°	3967.6	4011.0	3981.0	3984.5	3943.5
45°	3744.5	3784.4	3754.8	3739.4	3716.5
47.5°	3522.2	3539.6	3515.1	3511.2	3478.8
50°	3287.0	3300.0	3281.4	3276.7	3240.4
52.5°	3043.8	3066.3	3042.6	3036.3	3012.2
55°	2806.1	2825.5	2806.5	2801.8	2781.2
57.5°	2566.9	2592.1	2572.8	2568.1	2551.5
60°	2327.6	2335.1	2330.4	2337.5	2321.3
62.5°	2090.0	2107.3	2112.9	2110.9	2098.3
65°	1854.3	1872.4	1872.8	1882.3	1877.6
67.5°	1613.1	1636.8	1643.5	1653.3	1657.7
70°	1386.1	1404.2	1424.0	1429.9	1425.6
72.5°	1157.5	1186.7	1208.8	1214.0	1232.5
75°	926.9	954.6	987.0	994.1	1002.4
77.5°	713.0	749.7	778.9	788.4	798.6
80°	510.1	550.7	579.9	593.0	612.7
82.5°	334.8	376.2	405.8	418.9	442.9
85°	177.7	214.8	244.4	266.1	276.3
87.5°	52.5	84.1	101.1	107.4	116.5
90°	0.0	3.9	4.7	10.7	9.9
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)