

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

Luminaire Equipment: Sample No. Condition Description

Summary

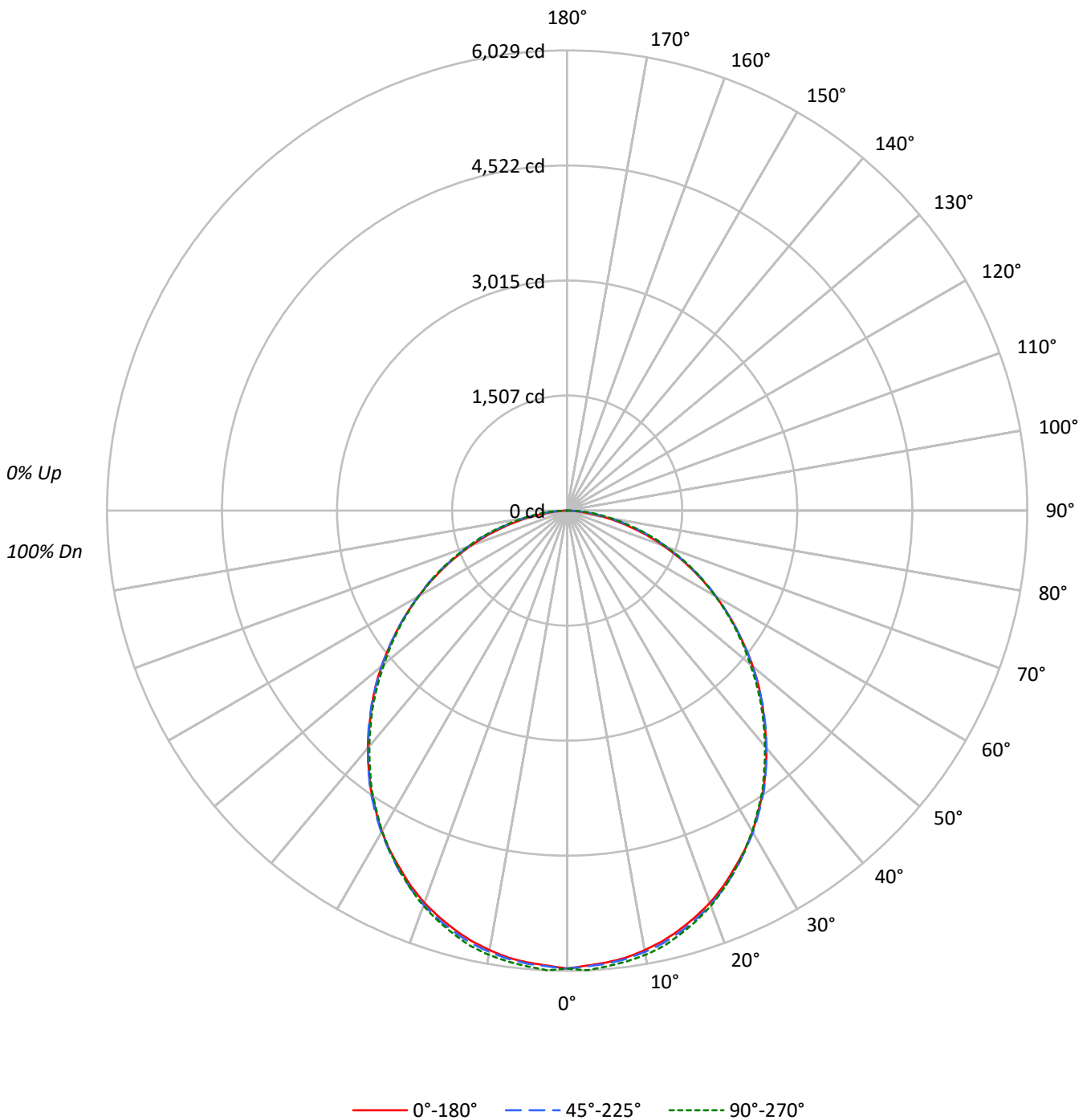
Lumens per Lamp: N/A
Luminaire Lumens: 15672.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8073	8073	8073
5°	8027	8049	8095
10°	7990	8022	8075
15°	7920	7963	8002
20°	7830	7868	7891
25°	7685	7729	7718
30°	7544	7564	7533
35°	7357	7375	7329
40°	7136	7136	7081
45°	6886	6905	6835
50°	6649	6638	6555
55°	6362	6363	6305
60°	6053	6061	6037
65°	5706	5762	5777
70°	5270	5414	5420
75°	4657	4958	5036
80°	3819	4343	4588
85°	2651	3646	4123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.4	3.6
10°-20°	1614.2	10.3
20°-30°	2398.8	15.3
30°-40°	2804.8	17.9
40°-50°	2796.5	17.8
50°-60°	2426.3	15.5
60°-70°	1792.1	11.4
70°-80°	1003.4	6.4
80°-90°	267.7	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°	4580.4	29.2
0°-40°	7385.2	47.1
0°-60°	12608.0	80.4
0°-90°	15671.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	15672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6000	6000	6000	6000	6000	
5°	5943	5980	5960	5986	5994	565
15°	5686	5725	5717	5744	5744	1604
25°	5177	5218	5206	5218	5198	2387
35°	4479	4518	4490	4490	4462	2798
45°	3619	3657	3629	3614	3592	2794
55°	2712	2731	2712	2708	2688	2425
65°	1792	1810	1810	1819	1815	1772
75°	896	923	954	961	969	954
85°	172	208	236	257	267	208
90°	0	4	5	10	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°	5999.7	5999.7	5999.7	5999.7	5999.7
2.5°	5966.9	6002.4	5977.6	6001.2	6028.7
5°	5942.8	5980.2	5959.6	5985.9	5993.6
7.5°	5907.7	5944.0	5924.1	5950.5	5958.5
10°	5848.2	5887.5	5871.9	5901.6	5910.0
12.5°	5778.8	5815.8	5805.5	5840.2	5845.9
15°	5685.7	5725.4	5716.6	5744.1	5744.4
17.5°	5582.7	5620.1	5613.6	5634.9	5634.2
20°	5468.6	5508.6	5494.9	5518.2	5510.9
22.5°	5333.5	5376.3	5359.1	5378.5	5360.2
25°	5176.7	5218.3	5206.1	5217.5	5198.5
27.5°	5024.9	5063.0	5037.8	5051.6	5031.3
30°	4855.5	4887.9	4868.4	4873.0	4848.6
32.5°	4665.1	4703.6	4679.9	4679.2	4653.2
35°	4478.9	4518.2	4490.3	4489.6	4461.7
37.5°	4272.8	4309.5	4276.7	4278.6	4246.1
40°	4062.6	4094.3	4062.6	4061.1	4031.3
42.5°	3834.5	3876.4	3847.4	3850.9	3811.2
45°	3618.9	3657.4	3628.8	3613.9	3591.8
47.5°	3404.1	3420.9	3397.2	3393.4	3362.1
50°	3176.7	3189.3	3171.3	3166.8	3131.7
52.5°	2941.7	2963.4	2940.5	2934.4	2911.1
55°	2712.0	2730.7	2712.4	2707.8	2687.9
57.5°	2480.8	2505.2	2486.5	2481.9	2465.9
60°	2249.5	2256.8	2252.2	2259.1	2243.4
62.5°	2019.9	2036.6	2042.0	2040.1	2027.9
65°	1792.1	1809.6	1810.0	1819.2	1814.6
67.5°	1559.0	1581.9	1588.3	1597.9	1602.1
70°	1339.6	1357.1	1376.2	1381.9	1377.7
72.5°	1118.7	1146.9	1168.3	1173.2	1191.2
75°	895.9	922.6	953.8	960.7	968.7
77.5°	689.1	724.5	752.8	761.9	771.9
80°	492.9	532.2	560.5	573.1	592.1
82.5°	323.5	363.6	392.2	404.8	428.1
85°	171.7	207.6	236.2	257.2	267.1
87.5°	50.7	81.3	97.7	103.8	112.6
90°	0.0	3.8	4.6	10.3	9.5
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)