

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-L740-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-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

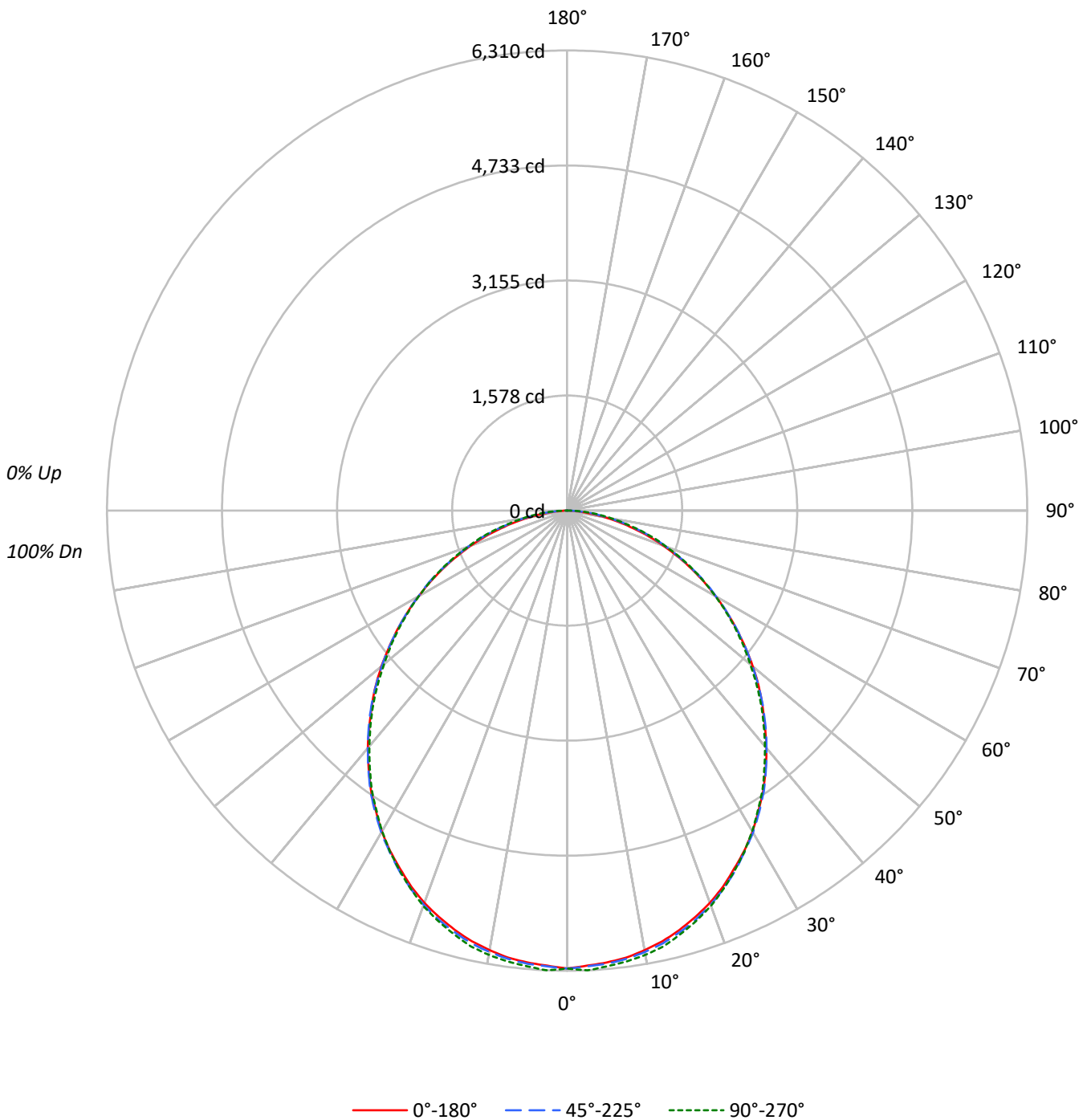
Lumens per Lamp: N/A
Luminaire Lumens: 16404.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8450	8450	8450
5°	8401	8425	8473
10°	8363	8397	8452
15°	8290	8335	8375
20°	8196	8235	8259
25°	8044	8090	8078
30°	7896	7917	7885
35°	7700	7720	7671
40°	7469	7469	7411
45°	7208	7227	7154
50°	6960	6948	6861
55°	6659	6660	6600
60°	6336	6344	6319
65°	5972	6032	6047
70°	5516	5667	5673
75°	4875	5190	5271
80°	3998	4546	4802
85°	2774	3816	4316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.9	3.6
10°-20°	1689.6	10.3
20°-30°	2510.8	15.3
30°-40°	2935.8	17.9
40°-50°	2927.1	17.8
50°-60°	2539.6	15.5
60°-70°	1875.8	11.4
70°-80°	1050.2	6.4
80°-90°	280.2	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°	4794.3	29.2
0°-40°	7730.2	47.1
0°-60°	13196.9	80.4
0°-90°	16403.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	16404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6280	6280	6280	6280	6280	
5°	6220	6260	6238	6266	6274	591
15°	5951	5993	5984	6012	6013	1678
25°	5418	5462	5449	5461	5441	2498
35°	4688	4729	4700	4699	4670	2928
45°	3788	3828	3798	3783	3760	2924
55°	2839	2858	2839	2834	2814	2538
65°	1876	1894	1895	1904	1899	1855
75°	938	966	998	1006	1014	999
85°	180	217	247	269	280	218
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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CATALOG NUMBER: HBLED-LD5-18HE-W-FLI-UNV-L740-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6279.9	6279.9	6279.9	6279.9	6279.9
2.5°	6245.6	6282.7	6256.8	6281.5	6310.3
5°	6220.4	6259.5	6238.0	6265.5	6273.5
7.5°	6183.7	6221.6	6200.8	6228.4	6236.8
10°	6121.4	6162.5	6146.1	6177.3	6186.1
12.5°	6048.7	6087.4	6076.6	6113.0	6119.0
15°	5951.2	5992.8	5983.6	6012.3	6012.7
17.5°	5843.4	5882.6	5875.8	5898.1	5897.3
20°	5724.0	5765.9	5751.6	5775.9	5768.3
22.5°	5582.6	5627.4	5609.4	5629.8	5610.6
25°	5418.5	5462.0	5449.2	5461.2	5441.3
27.5°	5259.6	5299.5	5273.1	5287.5	5266.3
30°	5082.2	5116.2	5095.8	5100.6	5075.0
32.5°	4883.0	4923.3	4898.5	4897.7	4870.6
35°	4688.1	4729.2	4700.1	4699.3	4670.1
37.5°	4472.4	4510.8	4476.4	4478.4	4444.5
40°	4252.4	4285.5	4252.4	4250.8	4219.6
42.5°	4013.6	4057.5	4027.1	4030.7	3989.2
45°	3787.9	3828.3	3798.3	3782.7	3759.6
47.5°	3563.1	3580.6	3555.9	3551.9	3519.1
50°	3325.1	3338.2	3319.5	3314.7	3277.9
52.5°	3079.1	3101.8	3077.9	3071.5	3047.1
55°	2838.6	2858.2	2839.0	2834.2	2813.5
57.5°	2596.6	2622.2	2602.6	2597.8	2581.1
60°	2354.6	2362.2	2357.4	2364.6	2348.2
62.5°	2114.2	2131.8	2137.4	2135.4	2122.6
65°	1875.8	1894.2	1894.6	1904.1	1899.3
67.5°	1631.8	1655.7	1662.5	1672.5	1676.9
70°	1402.1	1420.5	1440.5	1446.5	1442.1
72.5°	1170.9	1200.5	1222.8	1228.0	1246.8
75°	937.7	965.6	998.4	1005.6	1014.0
77.5°	721.2	758.4	787.9	797.5	807.9
80°	516.0	557.1	586.7	599.8	619.8
82.5°	338.7	380.6	410.5	423.7	448.1
85°	179.7	217.3	247.2	269.2	279.6
87.5°	53.1	85.1	102.2	108.6	117.8
90°	0.0	4.0	4.8	10.8	10.0
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)