

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-L850-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-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

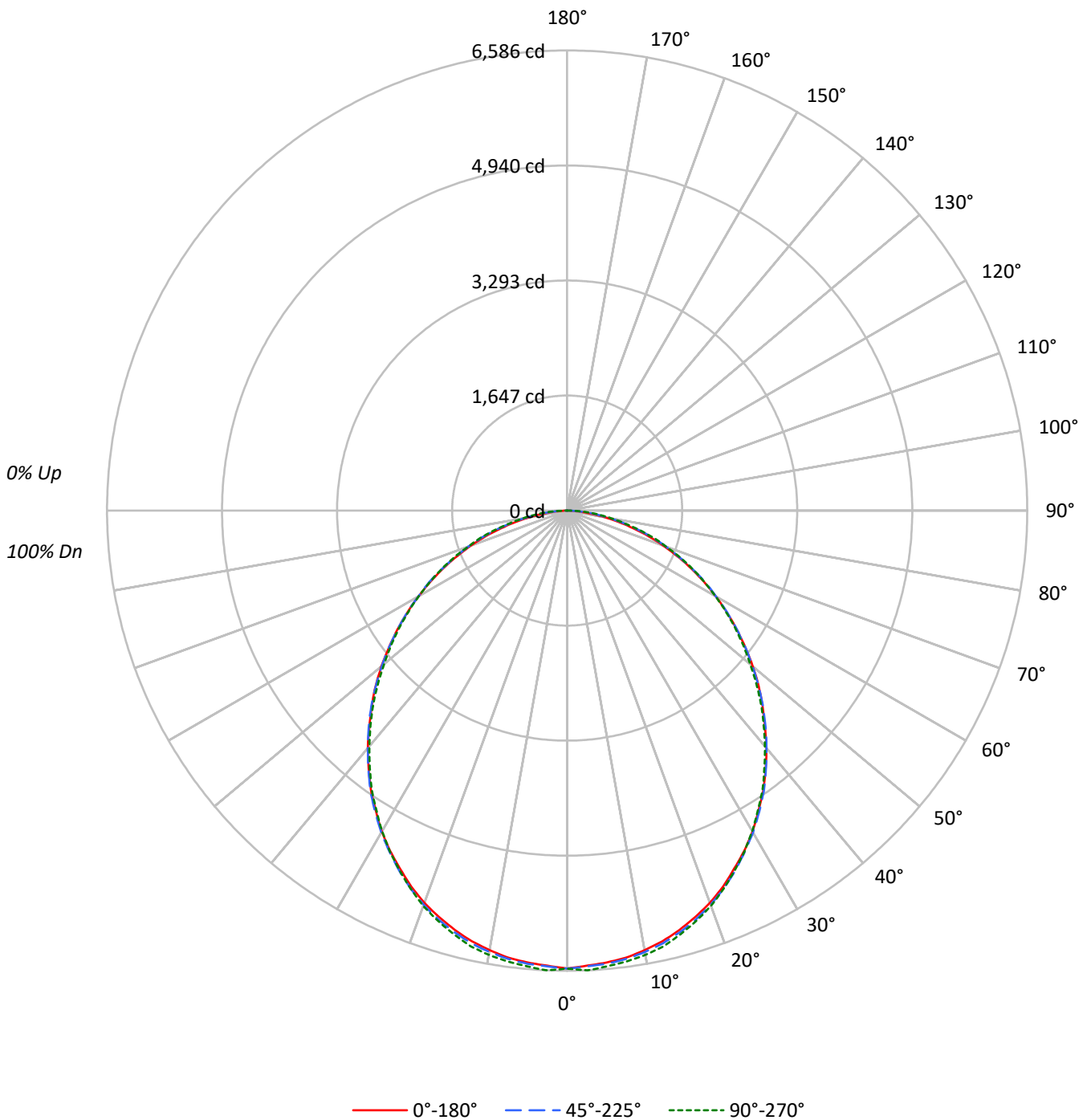
Lumens per Lamp: N/A
Luminaire Lumens: 17122.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8819	8819	8819
5°	8769	8794	8844
10°	8729	8765	8822
15°	8653	8700	8742
20°	8555	8596	8621
25°	8396	8444	8432
30°	8242	8264	8230
35°	8037	8058	8007
40°	7796	7796	7736
45°	7523	7544	7467
50°	7265	7253	7162
55°	6950	6951	6889
60°	6614	6621	6596
65°	6233	6296	6312
70°	5757	5915	5921
75°	5088	5417	5502
80°	4173	4744	5012
85°	2896	3983	4505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.9	3.6
10°-20°	1763.5	10.3
20°-30°	2620.7	15.3
30°-40°	3064.3	17.9
40°-50°	3055.2	17.8
50°-60°	2650.8	15.5
60°-70°	1957.9	11.4
70°-80°	1096.2	6.4
80°-90°	292.5	1.7
90°-100°	0.9	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°	5004.2	29.2
0°-40°	8068.5	47.1
0°-60°	13774.5	80.4
0°-90°	17121.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6555	6555	6555	6555	6555	
5°	6493	6534	6511	6540	6548	617
15°	6212	6255	6246	6276	6276	1752
25°	5656	5701	5688	5700	5679	2607
35°	4893	4936	4906	4905	4874	3057
45°	3954	3996	3965	3948	3924	3052
55°	2963	2983	2963	2958	2937	2649
65°	1958	1977	1978	1988	1982	1936
75°	979	1008	1042	1050	1058	1042
85°	188	227	258	281	292	228
90°	0	4	5	11	10	8
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°	6554.8	6554.8	6554.8	6554.8	6554.8
2.5°	6518.9	6557.7	6530.6	6556.5	6586.5
5°	6492.7	6533.5	6511.0	6539.8	6548.1
7.5°	6454.3	6493.9	6472.3	6501.0	6509.8
10°	6389.3	6432.2	6415.1	6447.7	6456.8
12.5°	6313.4	6353.9	6342.6	6380.5	6386.8
15°	6211.7	6255.1	6245.5	6275.5	6275.9
17.5°	6099.2	6140.0	6132.9	6156.3	6155.5
20°	5974.5	6018.3	6003.3	6028.7	6020.8
22.5°	5827.0	5873.7	5854.9	5876.2	5856.2
25°	5655.7	5701.1	5687.8	5700.3	5679.4
27.5°	5489.8	5531.4	5503.9	5518.9	5496.8
30°	5304.7	5340.1	5318.9	5323.9	5297.2
32.5°	5096.7	5138.8	5112.9	5112.1	5083.8
35°	4893.3	4936.2	4905.8	4904.9	4874.5
37.5°	4668.2	4708.2	4672.3	4674.4	4639.0
40°	4438.5	4473.1	4438.5	4436.8	4404.3
42.5°	4189.2	4235.1	4203.4	4207.2	4163.8
45°	3953.7	3995.8	3964.6	3948.3	3924.1
47.5°	3719.0	3737.4	3711.5	3707.4	3673.2
50°	3470.6	3484.4	3464.8	3459.8	3421.4
52.5°	3213.8	3237.6	3212.6	3205.9	3180.5
55°	2962.9	2983.3	2963.3	2958.3	2936.6
57.5°	2710.3	2737.0	2716.5	2711.5	2694.0
60°	2457.7	2465.6	2460.6	2468.1	2451.0
62.5°	2206.7	2225.1	2230.9	2228.8	2215.5
65°	1957.9	1977.1	1977.5	1987.5	1982.5
67.5°	1703.2	1728.2	1735.3	1745.7	1750.3
70°	1463.5	1482.7	1503.5	1509.8	1505.2
72.5°	1222.2	1253.0	1276.4	1281.8	1301.4
75°	978.7	1007.9	1042.1	1049.6	1058.4
77.5°	752.8	791.6	822.4	832.4	843.3
80°	538.6	581.5	612.3	626.1	646.9
82.5°	353.5	397.2	428.5	442.3	467.7
85°	187.6	226.8	258.0	280.9	291.8
87.5°	55.4	88.8	106.7	113.4	123.0
90°	0.0	4.2	5.0	11.3	10.4
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)