

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-LD5-36HE-W-FLI-UNV-L735-ED3-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-LD5-36HE-W-FLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

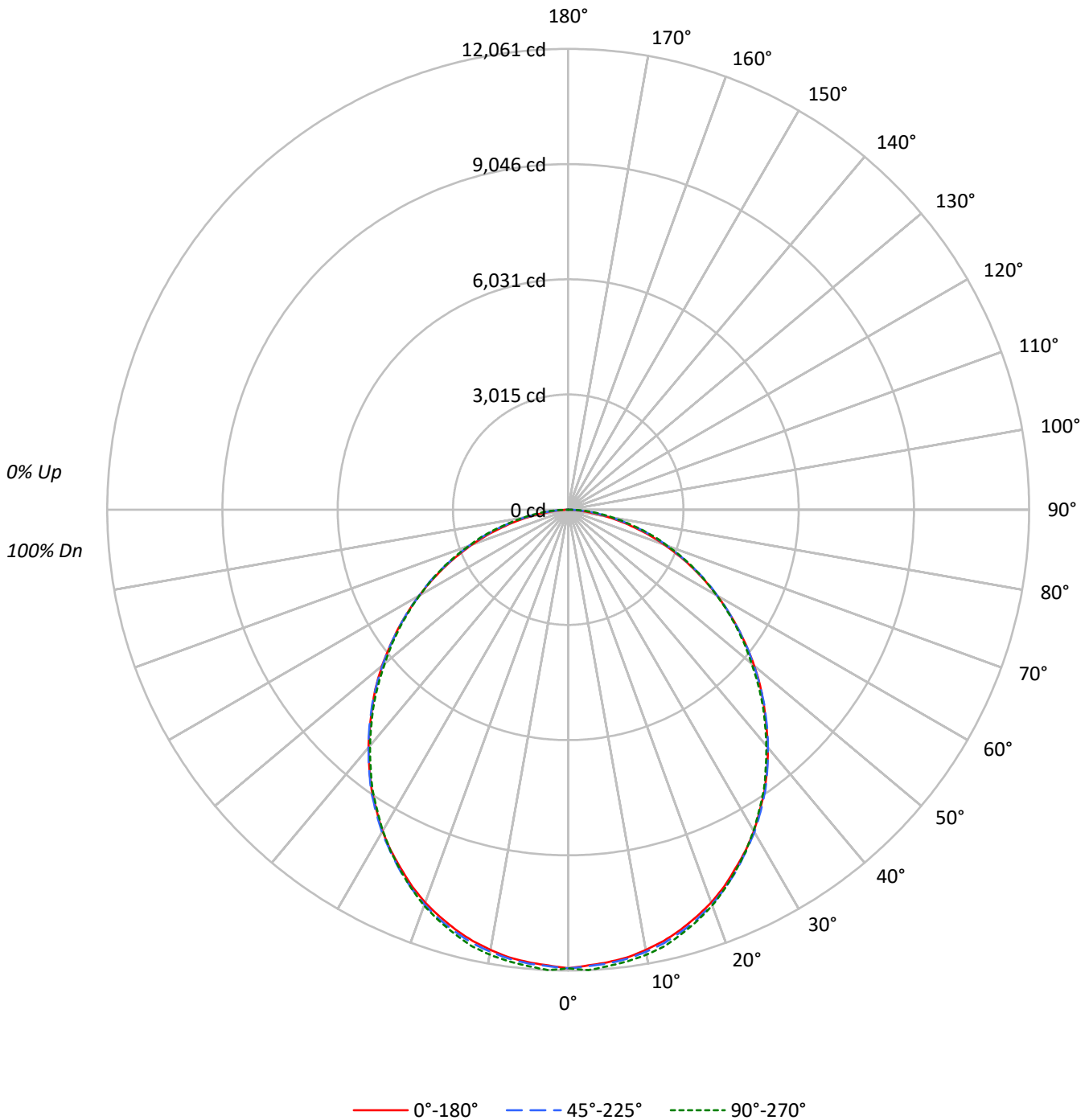
Lumens per Lamp: N/A
Luminaire Lumens: 31354.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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°	16150	16150	16150
5°	16058	16104	16195
10°	15985	16050	16154
15°	15845	15931	16009
20°	15665	15741	15787
25°	15375	15463	15440
30°	15092	15132	15071
35°	14718	14756	14662
40°	14276	14276	14166
45°	13777	13814	13673
50°	13303	13281	13115
55°	12728	12729	12615
60°	12111	12125	12078
65°	11415	11529	11558
70°	10543	10831	10843
75°	9317	9920	10075
80°	7641	8688	9179
85°	5303	7294	8248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.2	3.6
10°-20°	3229.4	10.3
20°-30°	4799.1	15.3
30°-40°	5611.4	17.9
40°-50°	5594.7	17.8
50°-60°	4854.2	15.5
60°-70°	3585.4	11.4
70°-80°	2007.4	6.4
80°-90°	535.6	1.7
90°-100°	1.6	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°	9163.7	29.2
0°-40°	14775.1	47.1
0°-60°	25224.0	80.4
0°-90°	31352.4	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	31354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12003	12003	12003	12003	12003	
5°	11890	11964	11923	11976	11991	###
15°	11375	11454	11437	11492	11492	3208
25°	10357	10440	10416	10438	10400	4775
35°	8961	9039	8984	8982	8926	5597
45°	7240	7317	7260	7230	7186	5589
55°	5426	5463	5426	5417	5378	4852
65°	3585	3620	3621	3640	3630	3546
75°	1792	1846	1908	1922	1938	1909
85°	344	415	472	514	534	417
90°	0	8	9	21	19	14
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°	12003.2	12003.2	12003.2	12003.2	12003.2
2.5°	11937.6	12008.5	11958.9	12006.3	12061.2
5°	11889.5	11964.3	11923.0	11975.7	11991.0
7.5°	11819.2	11891.8	11852.1	11904.7	11920.8
10°	11700.2	11778.8	11747.5	11807.0	11823.8
12.5°	11561.2	11635.3	11614.7	11684.1	11695.6
15°	11375.0	11454.4	11436.8	11491.8	11492.5
17.5°	11168.9	11243.7	11230.7	11273.5	11271.9
20°	10940.7	11020.8	10993.3	11039.9	11025.4
22.5°	10670.4	10755.9	10721.6	10760.5	10723.9
25°	10356.7	10439.9	10415.5	10438.4	10400.2
27.5°	10052.9	10129.2	10078.9	10106.3	10065.9
30°	9714.0	9778.9	9740.0	9749.1	9700.3
32.5°	9333.1	9410.2	9362.9	9361.3	9309.4
35°	8960.6	9039.2	8983.5	8982.0	8926.3
37.5°	8548.4	8621.7	8556.0	8559.9	8495.0
40°	8127.8	8191.2	8127.8	8124.8	8065.2
42.5°	7671.4	7755.3	7697.3	7704.2	7624.8
45°	7240.1	7317.2	7259.9	7230.2	7185.9
47.5°	6810.3	6843.9	6796.6	6789.0	6726.4
50°	6355.4	6380.6	6344.7	6335.6	6265.3
52.5°	5885.2	5928.7	5882.9	5870.7	5824.1
55°	5425.7	5463.1	5426.4	5417.3	5377.6
57.5°	4963.1	5012.0	4974.6	4965.4	4933.3
60°	4500.5	4515.0	4505.9	4519.6	4488.3
62.5°	4041.0	4074.6	4085.3	4081.5	4057.0
65°	3585.3	3620.4	3621.2	3639.5	3630.3
67.5°	3118.9	3164.7	3177.7	3196.8	3205.2
70°	2680.0	2715.1	2753.3	2764.7	2756.3
72.5°	2238.1	2294.5	2337.3	2347.2	2383.1
75°	1792.3	1845.7	1908.3	1922.0	1938.1
77.5°	1378.6	1449.5	1506.0	1524.3	1544.2
80°	986.2	1064.8	1121.3	1146.5	1184.7
82.5°	647.3	727.4	784.7	809.9	856.4
85°	343.5	415.2	472.5	514.5	534.3
87.5°	101.5	162.6	195.4	207.6	225.2
90°	0.0	7.6	9.2	20.6	19.1
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)