

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-LD5-36SE-W-FLI-UNV-L750-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-LD5-36SE-W-FLI-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

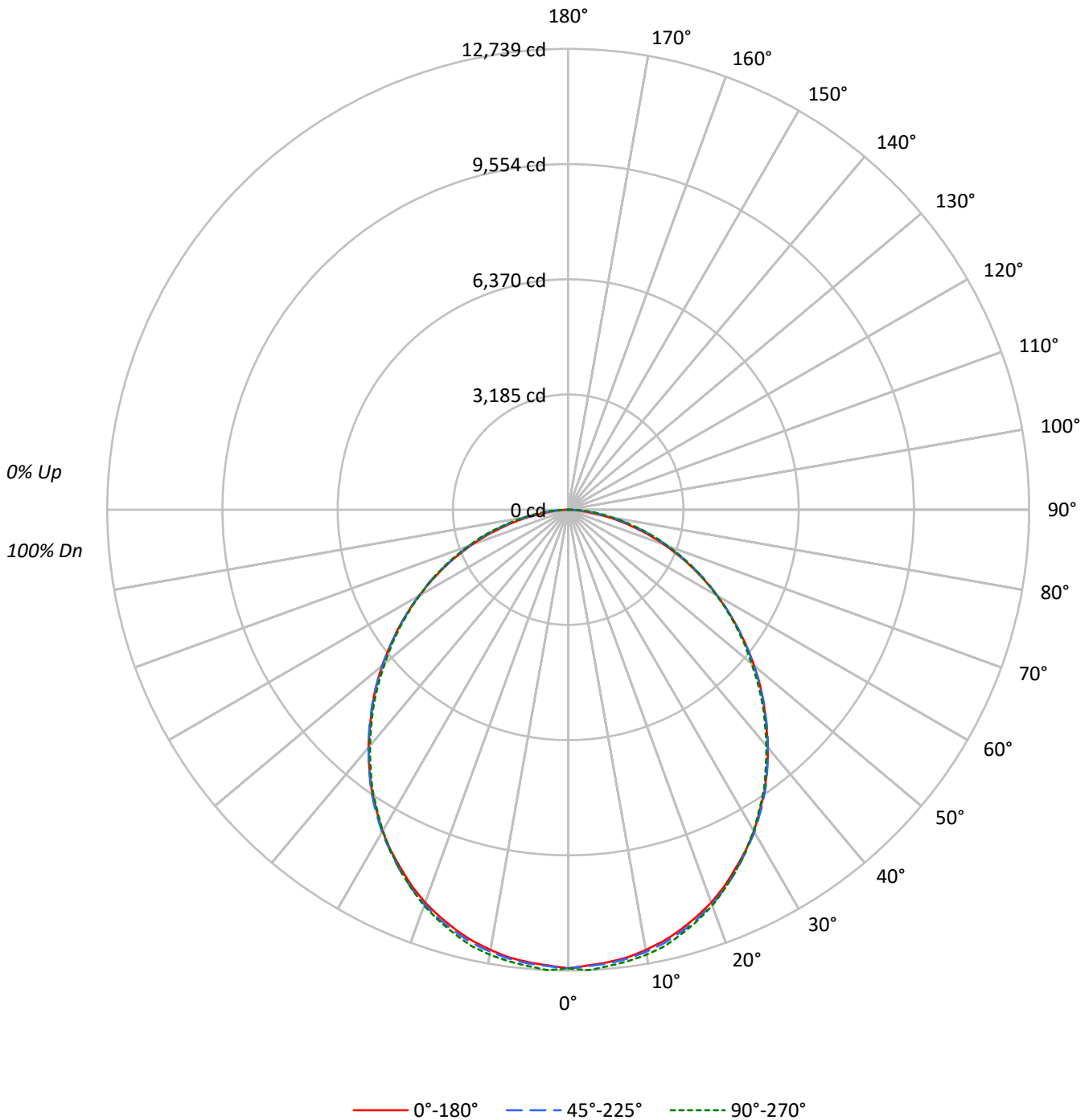
Lumens per Lamp: N/A
Luminaire Lumens: 33117.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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°	17058	17058	17058
5°	16961	17009	17106
10°	16884	16952	17063
15°	16736	16827	16909
20°	16546	16626	16674
25°	16240	16332	16308
30°	15941	15983	15918
35°	15546	15585	15486
40°	15078	15078	14962
45°	14551	14591	14442
50°	14051	14028	13852
55°	13443	13445	13324
60°	12792	12807	12757
65°	12056	12177	12208
70°	11136	11440	11453
75°	9841	10478	10641
80°	8071	9177	9696
85°	5601	7705	8713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.0	3.6
10°-20°	3411.0	10.3
20°-30°	5068.9	15.3
30°-40°	5926.9	17.9
40°-50°	5909.3	17.8
50°-60°	5127.1	15.5
60°-70°	3787.0	11.4
70°-80°	2120.3	6.4
80°-90°	565.7	1.7
90°-100°	1.7	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°	9679.0	29.2
0°-40°	15605.9	47.1
0°-60°	26642.3	80.4
0°-90°	33115.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	33117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12678	12678	12678	12678	12678	
5°	12558	12637	12594	12649	12665	###
15°	12015	12098	12080	12138	12139	3388
25°	10939	11027	11001	11025	10985	5043
35°	9464	9548	9489	9487	9428	5912
45°	7647	7729	7668	7637	7590	5903
55°	5731	5770	5732	5722	5680	5124
65°	3787	3824	3825	3844	3834	3745
75°	1893	1950	2016	2030	2047	2016
85°	363	439	499	543	564	441
90°	0	8	10	22	20	15
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°	12678.1	12678.1	12678.1	12678.1	12678.1
2.5°	12608.8	12683.8	12631.4	12681.3	12739.4
5°	12558.0	12637.0	12593.5	12649.1	12665.2
7.5°	12483.8	12560.4	12518.5	12574.1	12591.0
10°	12358.0	12441.1	12408.0	12470.9	12488.7
12.5°	12211.3	12289.5	12267.7	12341.1	12353.2
15°	12014.6	12098.4	12079.9	12137.9	12138.7
17.5°	11796.9	11875.9	11862.2	11907.4	11905.7
20°	11555.8	11640.5	11611.5	11660.6	11645.3
22.5°	11270.4	11360.7	11324.4	11365.6	11326.9
25°	10939.1	11026.9	11001.1	11025.3	10985.0
27.5°	10618.2	10698.8	10645.6	10674.6	10631.9
30°	10260.2	10328.7	10287.6	10297.3	10245.7
32.5°	9857.9	9939.3	9889.3	9887.7	9832.9
35°	9464.5	9547.5	9488.6	9487.0	9428.2
37.5°	9029.1	9106.5	9037.1	9041.2	8972.6
40°	8584.8	8651.8	8584.8	8581.6	8518.7
42.5°	8102.7	8191.4	8130.1	8137.4	8053.5
45°	7647.2	7728.6	7668.1	7636.7	7589.9
47.5°	7193.3	7228.7	7178.8	7170.7	7104.6
50°	6712.8	6739.4	6701.5	6691.8	6617.6
52.5°	6216.1	6262.1	6213.7	6200.8	6151.6
55°	5730.8	5770.3	5731.6	5721.9	5680.0
57.5°	5242.2	5293.8	5254.3	5244.6	5210.7
60°	4753.6	4768.9	4759.2	4773.7	4740.7
62.5°	4268.2	4303.7	4315.0	4311.0	4285.2
65°	3786.9	3824.0	3824.8	3844.2	3834.5
67.5°	3294.3	3342.7	3356.4	3376.5	3385.4
70°	2830.7	2867.8	2908.1	2920.2	2911.3
72.5°	2363.9	2423.6	2468.7	2479.2	2517.1
75°	1893.1	1949.5	2015.6	2030.1	2047.0
77.5°	1456.1	1531.0	1590.7	1610.1	1631.0
80°	1041.7	1124.7	1184.4	1211.0	1251.3
82.5°	683.7	768.3	828.8	855.4	904.6
85°	362.8	438.6	499.1	543.4	564.4
87.5°	107.2	171.7	206.4	219.3	237.8
90°	0.0	8.1	9.7	21.8	20.2
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)