

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-AWG-UNV-L850-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 (P23764)
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-AWG-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

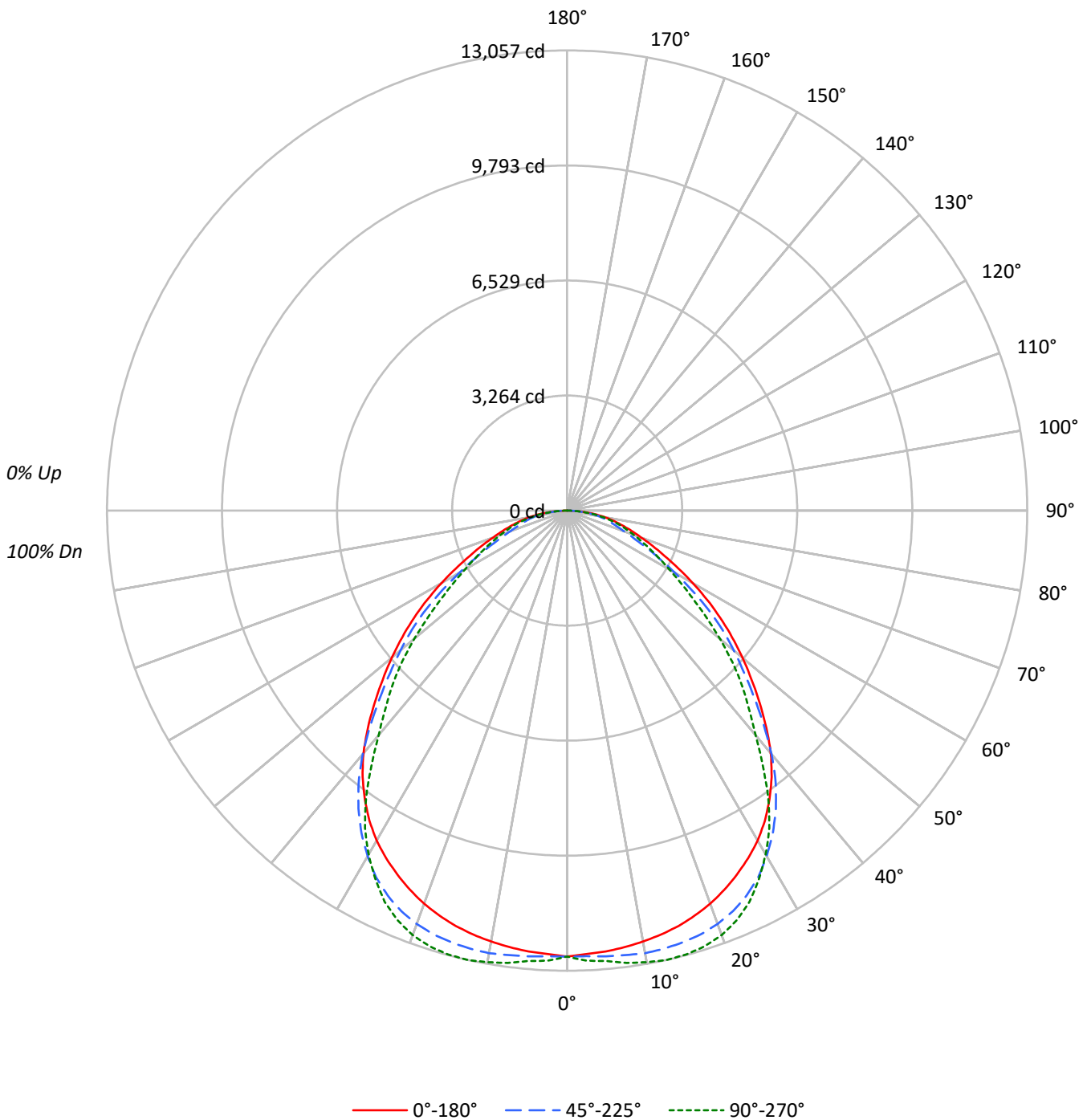
Lumens per Lamp: N/A
Luminaire Lumens: 31369.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17026	17026	17026
5°	16960	17150	17324
10°	16964	17425	17776
15°	16997	17667	18164
20°	16994	17869	18349
25°	16920	17892	18182
30°	16795	17594	17501
35°	16439	16958	16340
40°	15796	15841	14608
45°	14702	14282	13354
50°	13590	12914	11834
55°	12440	11445	10211
60°	11093	9499	9018
65°	9729	7818	8285
70°	8785	6734	7890
75°	8396	6601	7868
80°	8464	6988	7676
85°	7497	6400	6700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.5	3.9
10°-20°	3582.2	11.4
20°-30°	5494.6	17.5
30°-40°	6319.6	20.1
40°-50°	5763.9	18.4
50°-60°	4320.1	13.8
60°-70°	2657.4	8.5
70°-80°	1522.8	4.9
80°-90°	493.0	1.6
90°-100°	0.0	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°	10292.3	32.8
0°-40°	16611.8	53.0
0°-60°	26695.8	85.1
0°-90°	31369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12654	12654	12654	12654	12654	
5°	12557	12685	12698	12802	12827	###
15°	12202	12473	12683	12954	13040	3444
25°	11397	11725	12052	12238	12247	5252
35°	10008	10203	10324	10155	9948	6242
45°	7727	7894	7506	7118	7018	5963
55°	5303	5106	4879	4448	4353	4738
65°	3056	2733	2456	2531	2602	3073
75°	1615	1447	1270	1454	1513	1727
85°	486	458	415	437	434	542
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12654.0	12654.0	12654.0	12654.0	12654.0
2.5°	12594.3	12684.7	12655.6	12729.8	12784.7
5°	12557.2	12684.7	12697.6	12802.4	12826.6
7.5°	12494.3	12660.5	12718.5	12904.1	12946.0
10°	12416.8	12616.9	12754.0	12954.1	13010.6
12.5°	12323.2	12555.6	12729.8	12976.7	13057.4
15°	12202.2	12473.3	12683.0	12954.1	13039.6
17.5°	12049.0	12363.6	12608.8	12875.0	12963.8
20°	11868.3	12200.6	12479.7	12752.4	12815.3
22.5°	11650.5	11984.4	12302.3	12547.5	12581.4
25°	11397.1	11724.7	12052.2	12237.7	12247.4
27.5°	11121.3	11426.2	11732.7	11832.8	11789.2
30°	10809.9	11082.5	11324.5	11345.5	11264.8
32.5°	10440.4	10685.6	10858.3	10813.1	10677.6
35°	10008.0	10203.2	10324.2	10154.8	9948.3
37.5°	9533.7	9680.5	9720.8	9353.0	9117.4
40°	8993.2	9119.0	9019.0	8507.5	8317.1
42.5°	8370.4	8515.6	8259.1	7754.1	7637.9
45°	7726.6	7894.4	7505.6	7118.4	7018.3
47.5°	7095.8	7249.1	6808.6	6497.2	6348.8
50°	6492.4	6558.5	6169.7	5818.0	5653.4
52.5°	5898.6	5832.5	5556.6	5119.4	4974.2
55°	5303.3	5106.5	4879.0	4448.2	4353.0
57.5°	4706.3	4432.0	4183.6	3852.8	3815.7
60°	4122.3	3785.1	3530.1	3333.3	3351.1
62.5°	3565.6	3222.0	2949.3	2886.4	2954.2
65°	3055.8	2733.1	2455.6	2531.4	2602.4
67.5°	2631.5	2321.7	2039.4	2233.0	2289.4
70°	2233.0	1982.9	1711.8	1961.9	2005.5
72.5°	1915.1	1702.2	1466.6	1710.2	1747.3
75°	1615.0	1447.2	1269.8	1453.7	1513.4
77.5°	1353.7	1214.9	1093.9	1202.0	1266.5
80°	1092.3	974.5	901.9	950.3	990.6
82.5°	800.3	724.4	671.2	692.2	698.6
85°	485.6	458.2	414.6	437.2	434.0
87.5°	159.7	182.3	192.0	172.6	163.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)