

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-CLWG-UNV-L835-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-CLWG-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31119.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

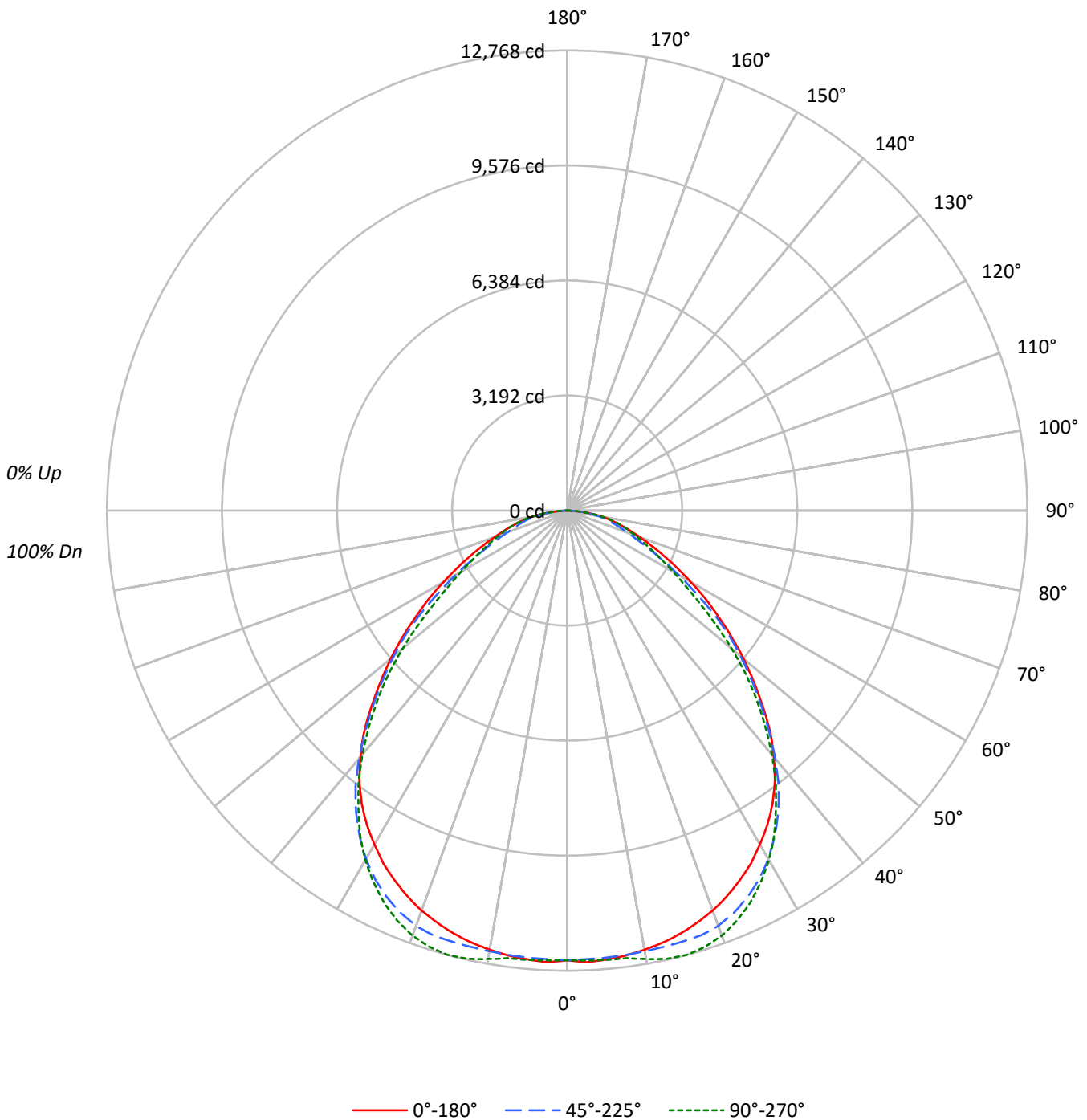
Input Watts (W): 211.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55				55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42				42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38				38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16789	16789	16789
5°	16888	16818	16901
10°	16903	16960	17263
15°	16924	17242	17785
20°	16912	17558	17968
25°	16809	17574	17832
30°	16616	17341	17396
35°	16319	16779	16578
40°	15675	15772	15523
45°	14606	14453	14159
50°	13373	13157	12483
55°	12012	11566	10555
60°	10653	9570	9111
65°	9386	7951	8269
70°	8394	6900	7875
75°	7864	6709	7964
80°	7656	6783	7581
85°	6112	5366	5565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.6	3.8
10°-20°	3501.2	11.3
20°-30°	5386.2	17.3
30°-40°	6286.0	20.2
40°-50°	5841.4	18.8
50°-60°	4329.8	13.9
60°-70°	2646.9	8.5
70°-80°	1507.7	4.8
80°-90°	431.2	1.4
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°	10076.1	32.4
0°-40°	16362.1	52.6
0°-60°	26533.3	85.3
0°-90°	31119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12478	12478	12478	12478	12478	
5°	12504	12446	12452	12442	12513	###
15°	12150	12143	12378	12623	12768	3429
25°	11322	11409	11837	11937	12011	5216
35°	9935	10012	10215	10132	10093	6190
45°	7676	7721	7596	7476	7441	5915
55°	5120	4992	4931	4580	4499	4595
65°	2948	2678	2498	2565	2597	2950
75°	1513	1419	1291	1471	1532	1619
85°	396	386	348	360	360	456
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12477.8	12477.8	12477.8	12477.8	12477.8
2.5°	12545.4	12474.6	12461.7	12432.8	12497.1
5°	12503.6	12445.6	12452.1	12442.4	12513.2
7.5°	12455.3	12413.5	12439.2	12436.0	12529.3
10°	12371.6	12349.1	12413.5	12484.3	12635.5
12.5°	12278.3	12255.8	12397.4	12577.6	12741.7
15°	12149.5	12143.1	12378.1	12622.7	12767.5
17.5°	11988.6	11998.3	12355.5	12564.7	12693.5
20°	11811.6	11827.7	12262.2	12432.8	12548.6
22.5°	11583.1	11637.8	12082.0	12223.6	12313.7
25°	11322.4	11409.3	11837.4	11937.1	12011.2
27.5°	11042.4	11129.3	11534.8	11586.3	11628.2
30°	10694.8	10817.1	11161.5	11167.9	11196.9
32.5°	10340.8	10450.2	10714.1	10685.2	10691.6
35°	9935.3	10012.5	10215.3	10131.6	10093.0
37.5°	9468.6	9510.4	9639.2	9513.7	9507.2
40°	8924.7	8979.4	8979.4	8805.6	8837.8
42.5°	8345.4	8364.7	8284.2	8120.1	8145.8
45°	7675.9	7721.0	7595.5	7476.4	7441.0
47.5°	7012.9	7058.0	6926.0	6787.7	6726.5
50°	6388.6	6366.0	6285.6	6050.6	5963.7
52.5°	5741.7	5670.9	5638.7	5294.3	5194.5
55°	5120.5	4991.8	4930.6	4579.8	4499.4
57.5°	4544.4	4312.7	4196.8	3923.3	3891.1
60°	3958.7	3698.0	3556.4	3379.3	3385.8
62.5°	3427.6	3154.1	2983.5	2932.0	2954.5
65°	2948.1	2677.7	2497.5	2565.1	2597.3
67.5°	2513.6	2291.5	2088.8	2246.5	2278.6
70°	2133.8	1956.8	1754.0	1985.8	2001.9
72.5°	1818.4	1673.6	1503.0	1721.9	1757.3
75°	1512.7	1419.3	1290.6	1470.8	1532.0
77.5°	1245.5	1171.5	1097.5	1206.9	1274.5
80°	988.1	914.0	875.4	933.3	978.4
82.5°	698.4	650.1	611.5	653.3	675.9
85°	395.9	386.2	347.6	360.5	360.5
87.5°	90.1	103.0	115.9	106.2	90.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)