

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-CL-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 (P23762)
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-CL-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

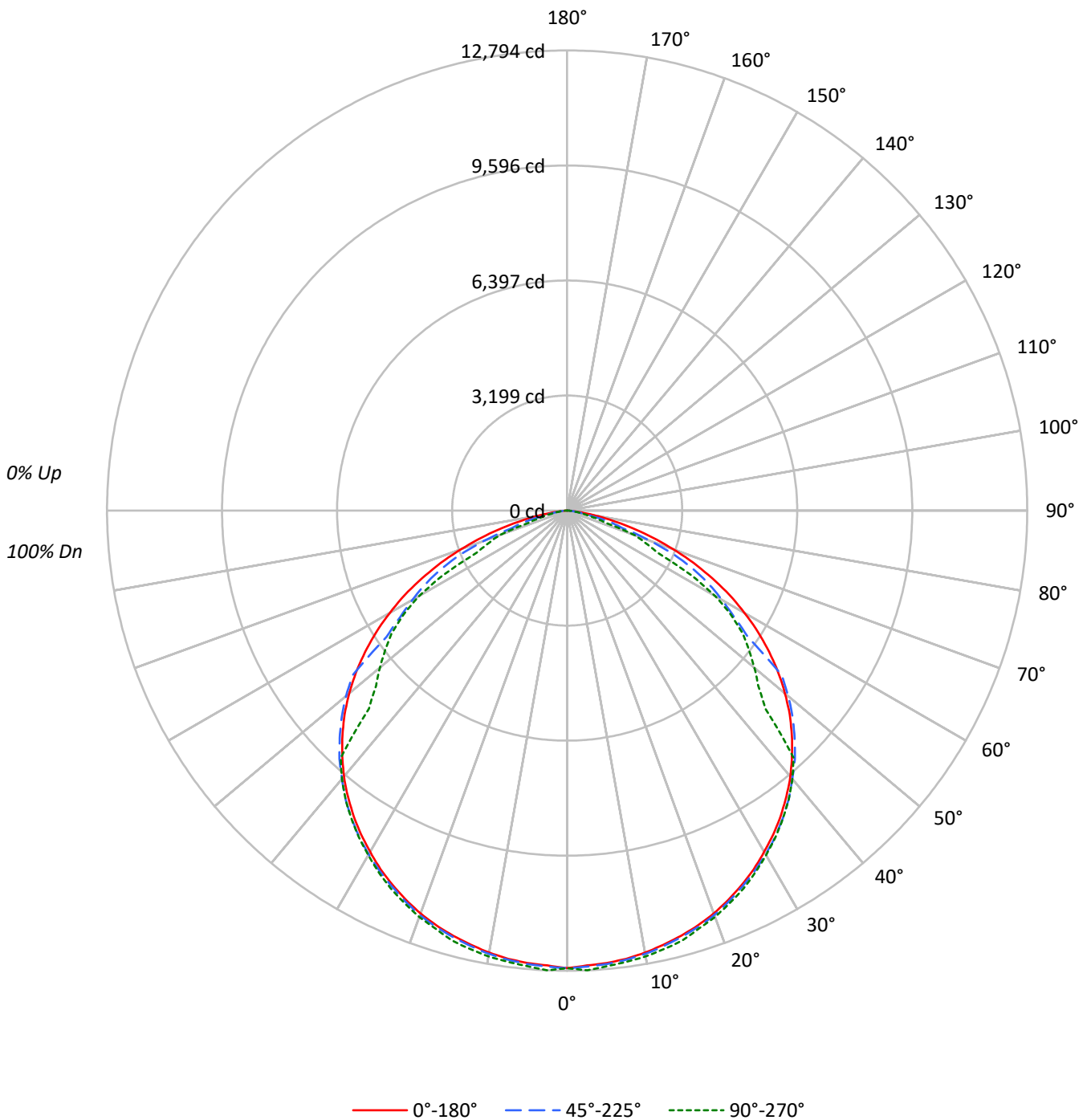
Lumens per Lamp: N/A
Luminaire Lumens: 34387.0 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	100	100	100	100	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	86	86	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73	73	73	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62	62	62	62	62	62	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53	53	53	53	53	53	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46	46	46	46	46	46	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40	40	40	40	40	40	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36	36	36	36	36	36	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32	32	32	32	32	32	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29	29	29	29	29	29	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26	26	26	26	26	26	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17114	17114	17114
5°	17052	17090	17173
10°	17050	17099	17198
15°	17049	17101	17239
20°	17070	17135	17215
25°	17051	17115	17219
30°	17019	17144	17182
35°	17011	17166	17178
40°	16958	17107	17107
45°	16812	17015	14826
50°	16553	16802	14225
55°	16083	14383	13972
60°	15328	13370	12765
65°	14176	12410	8841
70°	12344	9657	7878
75°	9750	6481	4235
80°	6276	3096	2640
85°	2583	1888	2079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1206.6	3.5
10°-20°	3477.8	10.1
20°-30°	5331.9	15.5
30°-40°	6535.1	19.0
40°-50°	6718.6	19.5
50°-60°	5734.0	16.7
60°-70°	3790.8	11.0
70°-80°	1404.5	4.1
80°-90°	187.8	0.5
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°	10016.2	29.1
0°-40°	16551.3	48.1
0°-60°	29003.9	84.3
0°-90°	34387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12720	12720	12720	12720	12720	
5°	12625	12713	12653	12703	12715	###
15°	12240	12314	12277	12370	12376	3457
25°	11485	11546	11529	11632	11598	5296
35°	10356	10428	10451	10516	10458	6478
45°	8835	8924	8942	8928	7792	6809
55°	6856	6982	6131	5953	5956	6118
65°	4453	4490	3898	3206	2777	4390
75°	1876	1643	1247	838	815	2012
85°	167	119	122	133	135	277
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12719.6	12719.6	12719.6	12719.6	12719.6
2.5°	12657.7	12736.7	12690.2	12749.0	12794.0
5°	12625.1	12713.4	12653.0	12702.6	12715.0
7.5°	12569.4	12651.5	12595.7	12660.8	12651.5
10°	12479.6	12553.9	12515.2	12583.3	12588.0
12.5°	12365.0	12439.3	12403.7	12487.3	12485.8
15°	12239.5	12313.9	12276.7	12369.6	12375.8
17.5°	12092.4	12160.5	12132.7	12217.8	12183.8
20°	11922.0	11980.9	11966.9	12047.5	12022.7
22.5°	11713.0	11773.4	11759.4	11852.3	11815.2
25°	11485.3	11545.7	11528.7	11632.4	11598.3
27.5°	11239.0	11296.3	11294.8	11392.4	11339.7
30°	10954.1	11030.0	11034.6	11121.3	11059.4
32.5°	10672.2	10743.5	10763.6	10827.1	10774.4
35°	10356.3	10427.5	10450.7	10515.8	10458.5
37.5°	10015.6	10076.0	10117.8	10165.8	10120.9
40°	9654.7	9708.9	9739.9	9798.7	9739.9
42.5°	9252.0	9329.5	9372.8	9414.7	9318.6
45°	8835.4	8923.7	8942.3	8928.4	7791.6
47.5°	8394.1	8490.1	8500.9	7413.7	7204.6
50°	7907.8	8028.6	8027.0	6851.5	6795.8
52.5°	7401.3	7517.5	7512.8	6411.7	6374.5
55°	6856.2	6981.6	6131.4	5953.3	5956.4
57.5°	6300.2	6390.0	5501.0	5508.8	5406.6
60°	5696.2	5781.4	4968.3	4920.3	4743.7
62.5°	5090.6	5126.3	4452.6	4218.7	3882.6
65°	4452.6	4489.7	3898.1	3205.8	2776.9
67.5°	3797.5	3834.6	3235.3	2385.0	2352.5
70°	3137.7	2834.2	2454.7	1987.0	2002.5
72.5°	2487.2	2177.5	1604.5	1539.4	1112.0
75°	1875.5	1643.2	1246.7	837.9	814.6
77.5°	1305.6	1132.1	667.5	571.5	534.3
80°	810.0	568.4	399.6	354.7	340.7
82.5°	410.4	326.8	216.8	216.8	216.8
85°	167.3	119.3	122.3	133.2	134.7
87.5°	35.6	48.0	58.9	60.4	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)