

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-UNV-L840-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 (P23760)
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-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

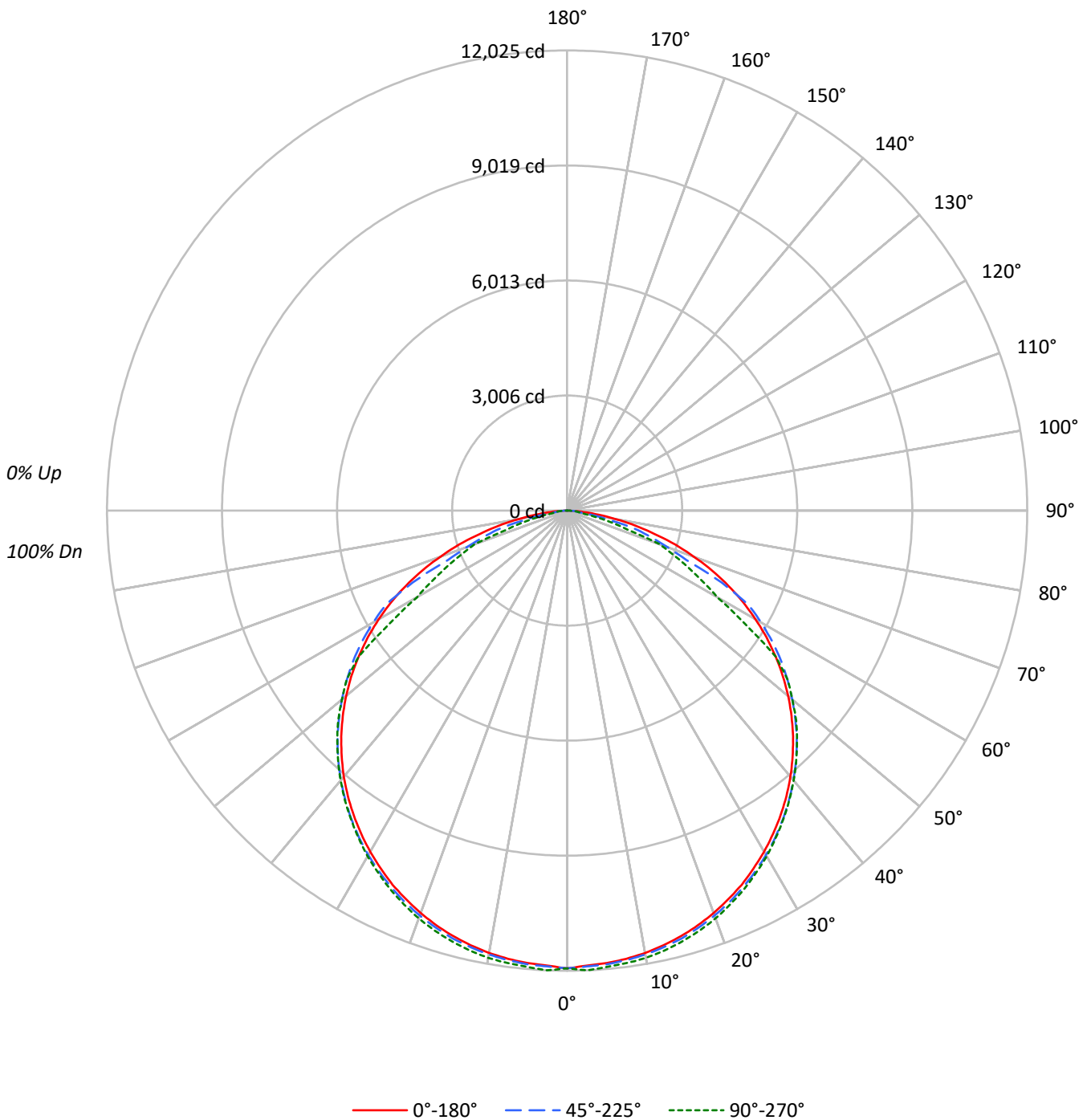
Lumens per Lamp: N/A
Luminaire Lumens: 34533.0 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16095	16095	16095
5°	16028	16073	16164
10°	16037	16094	16216
15°	16033	16119	16231
20°	16025	16128	16241
25°	16019	16134	16223
30°	15991	16147	16207
35°	15971	16155	16176
40°	15942	16154	16179
45°	15882	16146	16166
50°	15787	16078	16075
55°	15603	15993	15596
60°	15313	15757	12203
65°	14802	14181	10994
70°	13867	10911	10133
75°	12279	9513	6315
80°	10112	5601	2823
85°	6664	3432	3697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.1	3.3
10°-20°	3274.9	9.5
20°-30°	5020.9	14.5
30°-40°	6157.6	17.8
40°-50°	6538.4	18.9
50°-60°	5972.0	17.3
60°-70°	4158.9	12.0
70°-80°	1939.7	5.6
80°-90°	335.6	1.0
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°	9430.9	27.3
0°-40°	15588.5	45.1
0°-60°	28098.9	81.4
0°-90°	34533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11962	11962	11962	11962	11962	
5°	11867	11950	11900	11958	11968	###
15°	11510	11590	11572	11642	11652	3250
25°	10790	10885	10868	10948	10928	4973
35°	9723	9835	9835	9901	9848	6085
45°	8346	8473	8486	8540	8496	6437
55°	6651	6785	6818	6829	6648	5940
65°	4649	4793	4454	3542	3453	4588
75°	2362	2511	1830	1268	1215	2525
85°	432	284	222	238	240	558
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11961.9	11961.9	11961.9	11961.9	11961.9
2.5°	11898.8	11974.8	11924.6	11979.1	12025.0
5°	11867.3	11950.4	11900.3	11957.6	11967.7
7.5°	11815.6	11894.5	11848.6	11911.7	11927.5
10°	11738.2	11815.6	11779.8	11854.4	11868.7
12.5°	11633.5	11712.4	11685.1	11766.9	11776.9
15°	11510.2	11590.5	11571.8	11642.1	11652.1
17.5°	11365.3	11448.5	11427.0	11501.6	11508.7
20°	11191.8	11282.1	11263.5	11351.0	11342.4
22.5°	10996.8	11092.8	11078.5	11166.0	11140.2
25°	10790.2	10884.9	10867.7	10948.0	10927.9
27.5°	10547.9	10652.6	10636.8	10714.2	10682.7
30°	10292.6	10398.7	10393.0	10463.3	10431.7
32.5°	10017.3	10130.6	10124.8	10193.7	10144.9
35°	9723.3	9835.1	9835.1	9901.1	9848.0
37.5°	9412.1	9525.4	9526.8	9589.9	9539.7
40°	9076.5	9189.8	9197.0	9257.2	9211.3
42.5°	8723.7	8847.0	8852.8	8907.3	8864.2
45°	8346.5	8472.7	8485.6	8540.1	8495.7
47.5°	7952.1	8079.8	8091.3	8150.1	8118.5
50°	7542.0	7665.3	7681.1	7729.9	7679.7
52.5°	7108.9	7235.1	7256.6	7286.7	7263.8
55°	6651.4	6784.8	6817.8	6829.2	6648.5
57.5°	6178.1	6314.4	6345.9	6082.1	5501.2
60°	5690.6	5825.4	5855.5	4947.7	4534.7
62.5°	5182.9	5314.8	5347.8	4100.1	3968.2
65°	4649.4	4792.8	4454.3	3542.3	3453.3
67.5°	4101.6	4249.3	3368.7	3036.0	2983.0
70°	3525.0	3674.2	2773.6	2588.6	2575.7
72.5°	2971.5	3081.9	2275.9	1961.9	1652.1
75°	2362.0	2511.1	1829.9	1267.8	1214.7
77.5°	1831.4	1583.3	1104.3	929.3	732.8
80°	1305.0	1058.4	722.8	385.8	364.3
82.5°	827.5	691.2	284.0	291.1	304.0
85°	431.7	284.0	222.3	238.1	239.5
87.5°	139.1	121.9	133.4	131.9	130.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)