

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-AI-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 (P23765)
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-AI-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

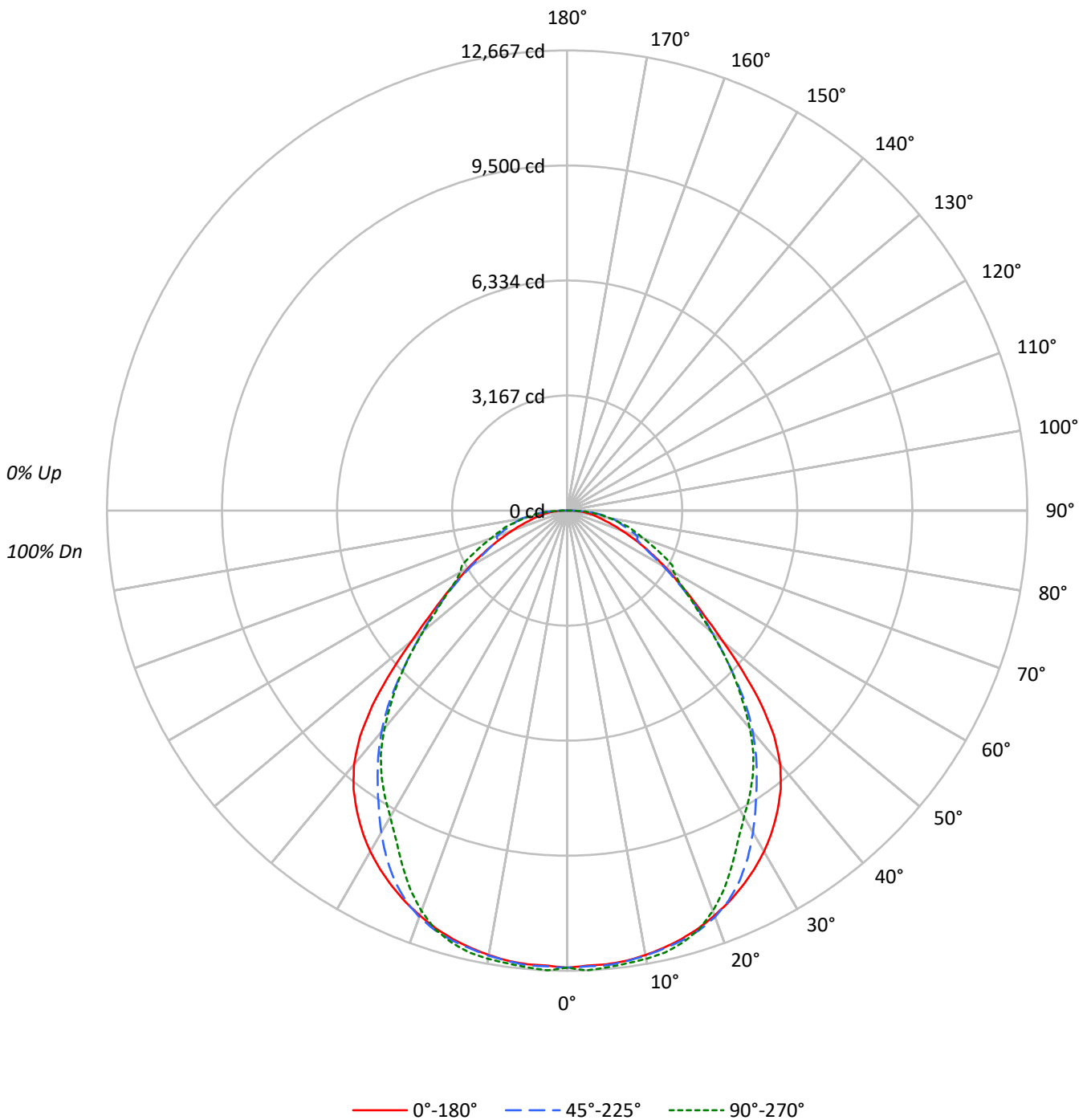
Lumens per Lamp: N/A
Luminaire Lumens: 29125.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	36		46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16930	16930	16930
5°	16929	16966	17049
10°	16971	16993	17117
15°	16998	17061	17144
20°	16980	17043	16791
25°	16937	16683	15958
30°	16838	15897	15122
35°	16584	14941	14630
40°	16029	13970	13740
45°	14408	12474	12428
50°	11686	10865	10791
55°	9703	9522	9519
60°	8401	8156	9118
65°	7281	7235	9191
70°	6278	8117	8761
75°	5630	8318	9133
80°	5852	9792	9163
85°	6643	11285	10470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1198.1	4.1
10°-20°	3460.1	11.9
20°-30°	5139.0	17.6
30°-40°	5834.1	20.0
40°-50°	5215.5	17.9
50°-60°	3606.0	12.4
60°-70°	2379.5	8.2
70°-80°	1605.3	5.5
80°-90°	687.5	2.4
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°	9797.1	33.6
0°-40°	15631.2	53.7
0°-60°	24452.7	84.0
0°-90°	29125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12583	12583	12583	12583	12583	
5°	12534	12611	12562	12613	12623	###
15°	12202	12261	12248	12316	12308	3444
25°	11409	11517	11238	10903	10749	5257
35°	10096	9884	9096	8964	8907	6296
45°	7572	6930	6556	6606	6532	5758
55°	4136	3776	4059	4002	4058	3757
65°	2287	2030	2273	2657	2887	2282
75°	1083	1362	1600	1710	1757	1183
85°	430	598	731	735	678	449
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12582.9	12582.9	12582.9	12582.9	12582.9
2.5°	12540.2	12618.5	12560.1	12614.2	12667.0
5°	12534.5	12611.4	12561.5	12612.8	12622.8
7.5°	12498.8	12570.1	12511.7	12561.5	12572.9
10°	12421.9	12506.0	12437.6	12514.5	12528.8
12.5°	12322.2	12407.6	12347.8	12453.2	12458.9
15°	12202.5	12260.9	12248.1	12316.5	12307.9
17.5°	12051.4	12118.4	12108.4	12125.5	12085.6
20°	11859.1	11934.6	11903.2	11824.9	11726.6
22.5°	11652.5	11743.7	11619.7	11421.6	11283.4
25°	11408.8	11517.1	11237.8	10903.0	10749.1
27.5°	11139.5	11236.4	10771.9	10361.6	10202.0
30°	10837.5	10878.8	10231.9	9841.5	9733.2
32.5°	10488.4	10428.5	9654.8	9396.9	9334.2
35°	10096.5	9884.2	9096.3	8963.8	8906.8
37.5°	9654.8	9265.8	8544.9	8483.6	8423.7
40°	9126.2	8552.0	7953.5	7913.6	7822.5
42.5°	8443.7	7775.4	7296.7	7249.7	7168.4
45°	7571.7	6930.5	6555.8	6605.6	6531.5
47.5°	6568.6	6082.7	5844.8	5981.5	5844.8
50°	5582.6	5256.3	5190.7	5314.7	5155.1
52.5°	4774.7	4481.2	4616.5	4637.9	4542.4
55°	4136.4	3775.9	4059.4	4002.4	4058.0
57.5°	3580.7	3177.4	3526.5	3461.0	3651.9
60°	3121.9	2668.8	3030.7	3016.4	3388.3
62.5°	2671.6	2309.7	2600.4	2809.8	3267.2
65°	2286.9	2030.4	2272.6	2657.4	2886.8
67.5°	1917.9	1821.0	2078.9	2292.6	2543.4
70°	1595.8	1645.7	2063.2	2023.3	2227.0
72.5°	1325.1	1494.7	1821.0	1828.1	1972.0
75°	1082.9	1362.2	1600.1	1709.8	1756.8
77.5°	900.5	1235.3	1444.8	1483.3	1437.7
80°	755.2	1088.6	1263.8	1246.7	1182.6
82.5°	609.8	825.0	996.0	1011.6	936.1
85°	430.3	598.4	731.0	735.2	678.2
87.5°	230.8	369.0	443.1	456.0	421.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)