

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-CLI-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 (P23766)
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-CLI-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

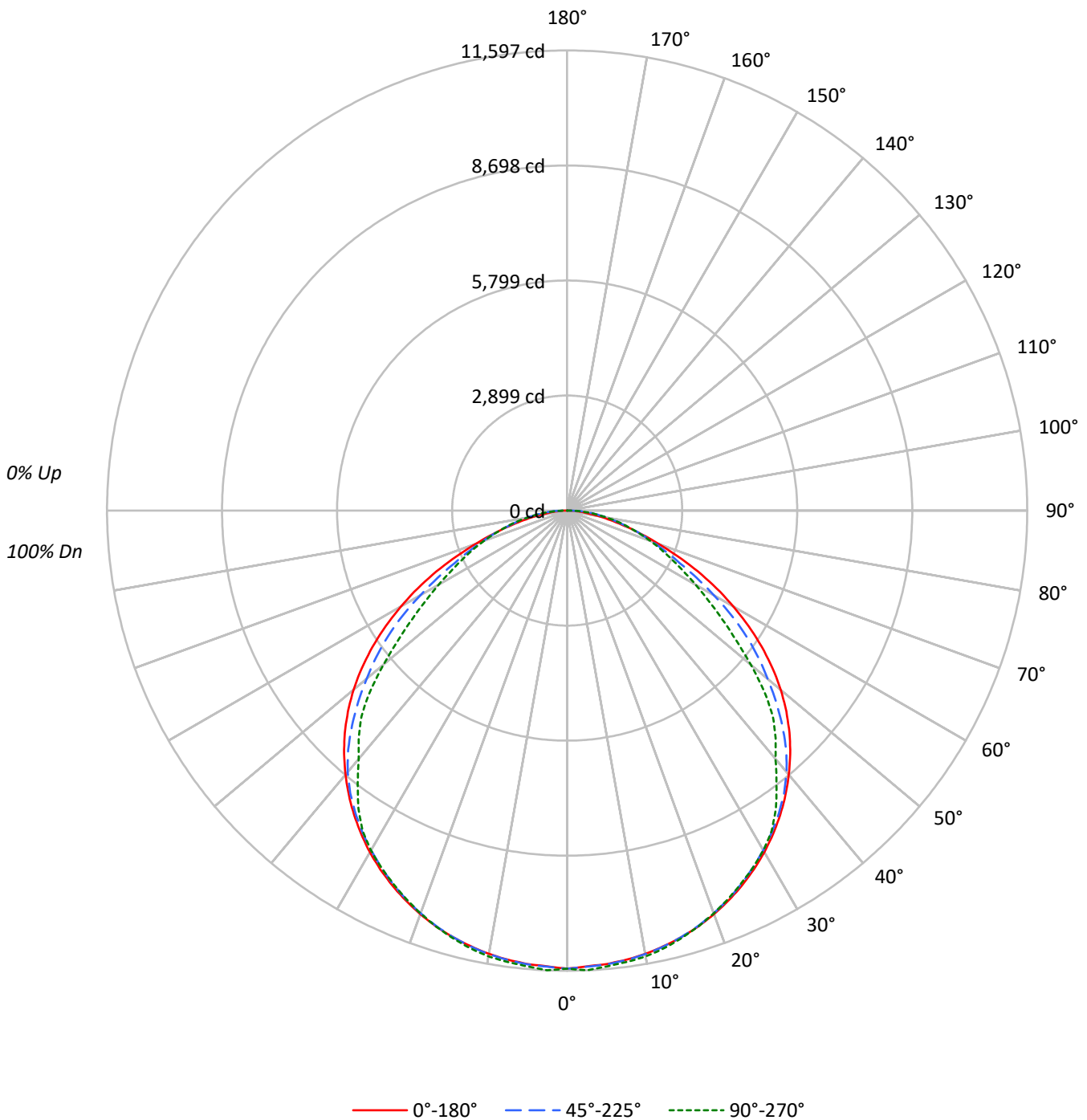
Lumens per Lamp: N/A
Luminaire Lumens: 31016.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15533	15533	15533
5°	15491	15502	15572
10°	15500	15507	15589
15°	15502	15500	15536
20°	15498	15462	15466
25°	15474	15417	15398
30°	15449	15356	15365
35°	15377	15281	15065
40°	15267	15111	14349
45°	15073	14591	13953
50°	14711	13814	12636
55°	14041	12919	11173
60°	13030	11527	10077
65°	11582	9980	9266
70°	9612	8919	8734
75°	7774	8163	8264
80°	6175	7806	7775
85°	4835	8387	8001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.8	3.5
10°-20°	3149.1	10.2
20°-30°	4801.8	15.5
30°-40°	5809.5	18.7
40°-50°	5884.5	19.0
50°-60°	4863.7	15.7
60°-70°	3212.4	10.4
70°-80°	1675.1	5.4
80°-90°	525.1	1.7
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°	9045.7	29.2
0°-40°	14855.2	47.9
0°-60°	25603.4	82.5
0°-90°	31016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11544	11544	11544	11544	11544	
5°	11470	11539	11478	11528	11529	###
15°	11129	11185	11127	11162	11154	3143
25°	10423	10465	10384	10411	10372	4806
35°	9362	9374	9303	9291	9172	5856
45°	7922	7901	7668	7430	7333	6100
55°	5986	5897	5508	4972	4763	5335
65°	3638	3533	3135	2931	2910	3593
75°	1495	1522	1570	1591	1590	1629
85°	313	403	543	539	518	380
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11544.3	11544.3	11544.3	11544.3	11544.3
2.5°	11495.8	11563.7	11506.9	11556.8	11597.0
5°	11469.5	11538.8	11477.8	11527.7	11529.1
7.5°	11418.2	11487.5	11425.1	11475.0	11473.7
10°	11344.8	11409.9	11350.3	11409.9	11409.9
12.5°	11245.0	11308.7	11250.5	11306.0	11297.6
15°	11128.6	11185.4	11127.2	11161.8	11153.5
17.5°	10991.4	11042.6	10977.5	11006.6	10990.0
20°	10823.7	10870.8	10798.7	10836.1	10801.5
22.5°	10635.2	10679.5	10606.1	10633.8	10595.0
25°	10423.2	10464.7	10384.4	10410.7	10371.9
27.5°	10194.5	10231.9	10141.8	10173.7	10143.2
30°	9943.6	9961.7	9884.1	9925.6	9889.6
32.5°	9663.7	9674.8	9606.9	9644.3	9583.3
35°	9361.6	9374.1	9303.4	9290.9	9171.7
37.5°	9038.7	9044.2	8977.7	8865.4	8668.6
40°	8692.2	8689.4	8603.5	8344.3	8169.7
42.5°	8322.2	8320.8	8169.7	7874.5	7774.8
45°	7921.7	7900.9	7668.0	7429.7	7332.7
47.5°	7492.0	7469.9	7144.2	6954.3	6734.0
50°	7027.8	6989.0	6599.5	6340.4	6036.9
52.5°	6527.5	6467.9	6071.5	5653.0	5366.1
55°	5985.6	5896.9	5507.5	4972.5	4763.2
57.5°	5421.5	5289.9	4911.5	4390.4	4220.0
60°	4842.2	4695.3	4283.7	3855.5	3744.6
62.5°	4246.3	4100.8	3680.9	3358.0	3297.0
65°	3637.9	3532.6	3134.8	2931.1	2910.3
67.5°	3014.3	2976.9	2673.4	2569.4	2561.1
70°	2443.3	2436.4	2267.3	2214.6	2220.2
72.5°	1952.7	1944.4	1919.4	1893.1	1894.5
75°	1495.4	1521.7	1570.2	1591.0	1589.6
77.5°	1115.6	1169.7	1272.2	1313.8	1306.9
80°	796.9	877.3	1007.5	1046.3	1003.4
82.5°	530.8	615.3	769.2	774.7	740.1
85°	313.2	403.3	543.3	539.1	518.3
87.5°	155.2	242.5	325.7	311.8	298.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)