

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-A-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 (P23761)
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-A-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

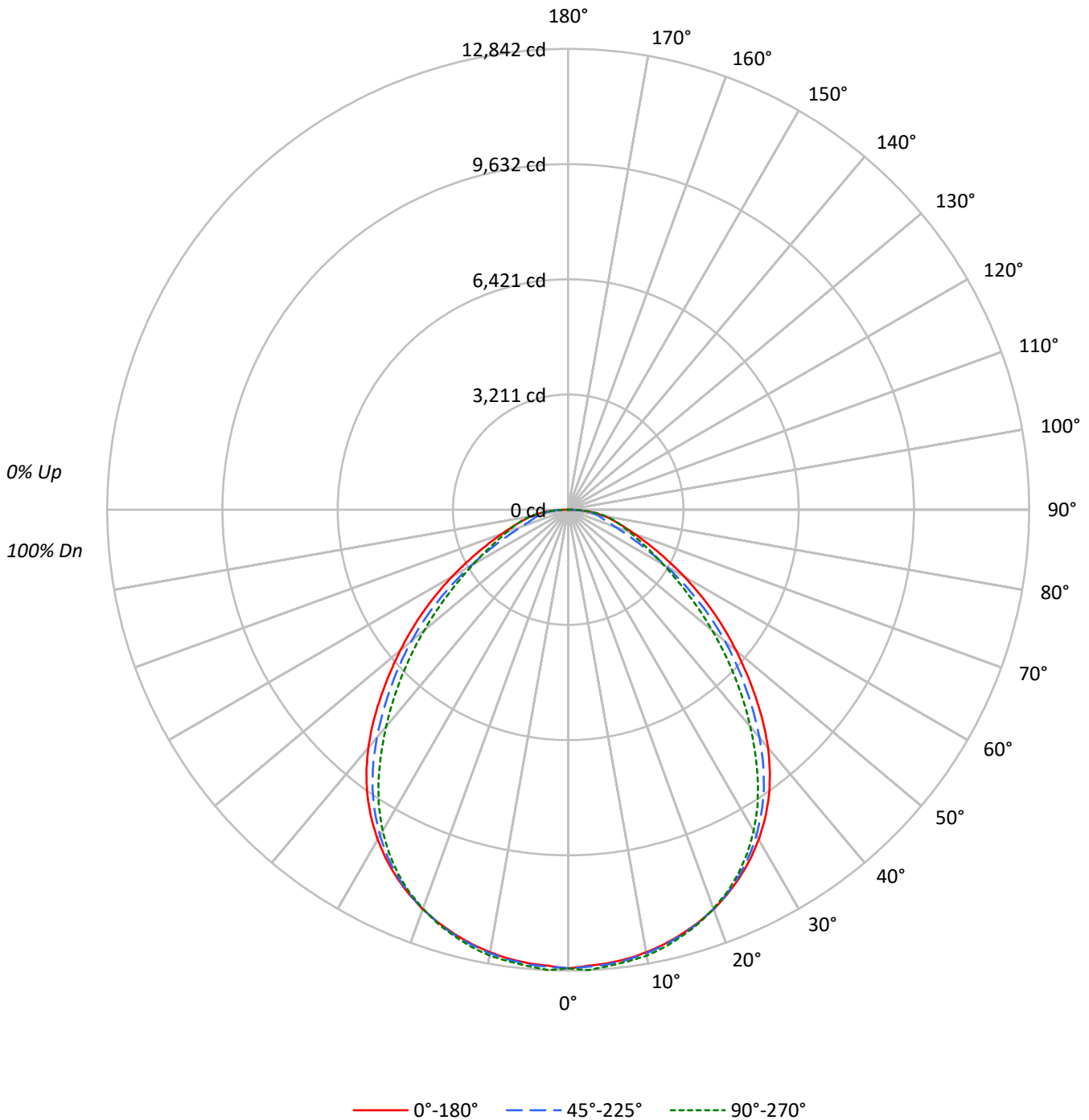
Lumens per Lamp: N/A
Luminaire Lumens: 29358.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17195	17195	17195
5°	17134	17174	17244
10°	17110	17150	17236
15°	17053	17087	17127
20°	16964	16951	16939
25°	16780	16722	16628
30°	16490	16291	16053
35°	16011	15608	15128
40°	15214	14561	13863
45°	14055	13271	12468
50°	12777	11950	10967
55°	11489	10346	9480
60°	10053	8455	8226
65°	8668	6649	7424
70°	7728	5426	7155
75°	7403	5297	7478
80°	8007	6265	8331
85°	8989	7543	9079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1211.2	4.1
10°-20°	3466.5	11.8
20°-30°	5185.5	17.7
30°-40°	5916.2	20.2
40°-50°	5385.4	18.3
50°-60°	3954.4	13.5
60°-70°	2334.9	8.0
70°-80°	1338.1	4.6
80°-90°	565.8	1.9
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°	9863.2	33.6
0°-40°	15779.4	53.7
0°-60°	25119.2	85.6
0°-90°	29358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12780	12780	12780	12780	12780	
5°	12686	12766	12715	12766	12767	###
15°	12242	12310	12267	12310	12296	3455
25°	11303	11343	11264	11260	11200	5203
35°	9748	9700	9502	9340	9210	6073
45°	7387	7343	6974	6662	6552	5693
55°	4898	4671	4410	4090	4041	4380
65°	2723	2377	2088	2234	2332	2740
75°	1424	1221	1019	1329	1438	1535
85°	582	538	489	576	588	609
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12780.0	12780.0	12780.0	12780.0	12780.0
2.5°	12720.9	12794.4	12748.3	12798.8	12842.0
5°	12686.3	12765.6	12715.2	12765.6	12767.1
7.5°	12622.9	12696.4	12647.4	12702.2	12696.4
10°	12523.5	12597.0	12552.3	12611.4	12615.7
12.5°	12396.6	12467.3	12421.1	12488.9	12477.4
15°	12242.4	12310.2	12266.9	12310.2	12295.8
17.5°	12060.8	12122.8	12066.6	12114.2	12089.6
20°	11847.5	11899.4	11838.9	11883.5	11830.2
22.5°	11592.4	11638.5	11575.1	11599.6	11544.8
25°	11302.7	11343.1	11263.8	11259.5	11200.4
27.5°	10979.8	11001.5	10900.6	10866.0	10798.2
30°	10613.8	10619.5	10485.5	10420.6	10332.7
32.5°	10203.0	10188.6	10017.1	9920.5	9812.4
35°	9747.5	9700.0	9502.5	9339.6	9209.9
37.5°	9233.0	9158.0	8921.7	8681.0	8557.0
40°	8662.2	8574.3	8290.4	7992.0	7892.6
42.5°	8041.0	7966.1	7631.7	7320.4	7222.4
45°	7386.7	7343.4	6974.5	6661.7	6552.2
47.5°	6732.3	6700.6	6340.3	6021.8	5889.2
50°	6103.9	6034.7	5709.0	5360.2	5239.1
52.5°	5494.2	5353.0	5066.2	4708.7	4619.4
55°	4897.5	4671.3	4410.4	4090.4	4041.4
57.5°	4306.6	4014.0	3760.4	3521.1	3519.7
60°	3735.9	3401.5	3142.0	3016.6	3057.0
62.5°	3201.1	2858.1	2577.0	2585.7	2659.2
65°	2722.6	2376.7	2088.4	2234.0	2332.0
67.5°	2311.8	1981.8	1689.2	1960.2	2053.9
70°	1964.5	1666.1	1379.3	1718.0	1818.9
72.5°	1671.9	1421.1	1163.1	1516.3	1618.6
75°	1424.0	1220.8	1019.0	1328.9	1438.4
77.5°	1222.2	1042.1	913.8	1150.2	1264.0
80°	1033.4	874.9	808.6	977.2	1075.2
82.5°	818.7	709.1	670.2	794.2	844.6
85°	582.3	537.6	488.6	576.5	588.1
87.5°	320.0	331.5	273.8	331.5	332.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)