

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-L740-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-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

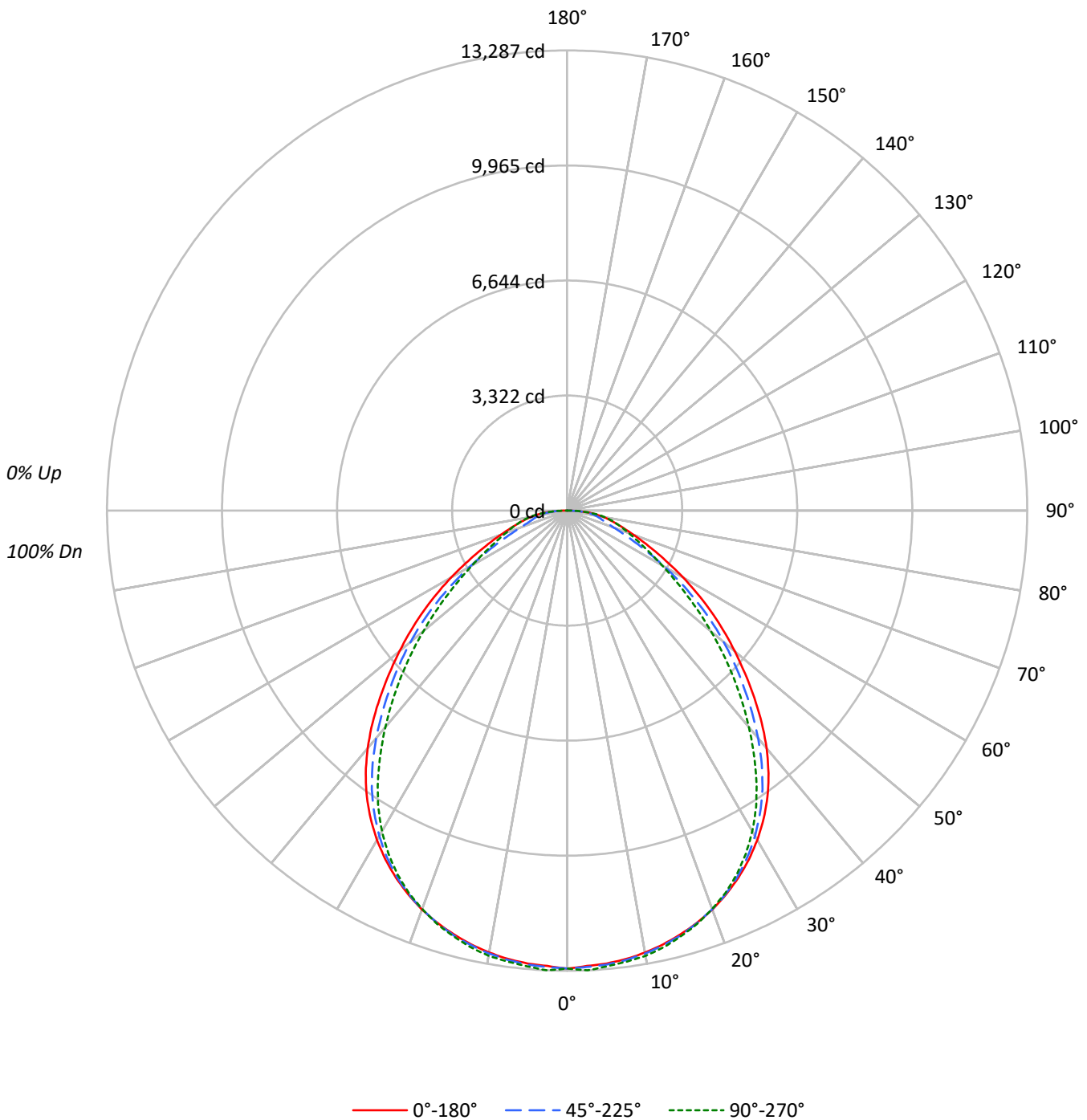
Lumens per Lamp: N/A
Luminaire Lumens: 30376.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	17792	17792	17792
5°	17729	17769	17842
10°	17703	17744	17834
15°	17644	17680	17721
20°	17552	17539	17526
25°	17362	17302	17204
30°	17062	16856	16610
35°	16566	16149	15652
40°	15742	15066	14343
45°	14543	13731	12900
50°	13220	12365	11347
55°	11887	10705	9809
60°	10402	8748	8512
65°	8968	6880	7682
70°	7996	5615	7404
75°	7660	5481	7737
80°	8285	6482	8620
85°	9301	7804	9392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.2	4.1
10°-20°	3586.7	11.8
20°-30°	5365.3	17.7
30°-40°	6121.3	20.2
40°-50°	5572.1	18.3
50°-60°	4091.6	13.5
60°-70°	2415.9	8.0
70°-80°	1384.5	4.6
80°-90°	585.4	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°	10205.2	33.6
0°-40°	16326.5	53.7
0°-60°	25990.2	85.6
0°-90°	30376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13223	13223	13223	13223	13223	
5°	13126	13208	13156	13208	13210	###
15°	12667	12737	12692	12737	12722	3574
25°	11695	11736	11654	11650	11589	5383
35°	10086	10036	9832	9664	9529	6284
45°	7643	7598	7216	6893	6779	5890
55°	5067	4833	4563	4232	4182	4532
65°	2817	2459	2161	2312	2413	2835
75°	1473	1263	1054	1375	1488	1588
85°	602	556	506	596	608	630
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13223.2	13223.2	13223.2	13223.2	13223.2
2.5°	13162.0	13238.1	13190.4	13242.6	13287.3
5°	13126.3	13208.3	13156.1	13208.3	13209.8
7.5°	13060.6	13136.7	13086.0	13142.7	13136.7
10°	12957.7	13033.8	12987.6	13048.7	13053.2
12.5°	12826.5	12899.6	12851.9	12921.9	12910.0
15°	12666.9	12737.0	12692.3	12737.0	12722.1
17.5°	12479.0	12543.2	12485.0	12534.2	12508.9
20°	12258.3	12312.0	12249.4	12295.6	12240.4
22.5°	11994.4	12042.1	11976.5	12001.8	11945.2
25°	11694.6	11736.4	11654.4	11649.9	11588.7
27.5°	11360.6	11382.9	11278.6	11242.8	11172.7
30°	10981.8	10987.8	10849.1	10782.0	10691.0
32.5°	10556.8	10541.9	10364.4	10264.5	10152.6
35°	10085.5	10036.3	9832.0	9663.5	9529.3
37.5°	9553.1	9475.6	9231.0	8982.0	8853.7
40°	8962.6	8871.6	8577.8	8269.2	8166.3
42.5°	8319.9	8242.3	7896.3	7574.2	7472.8
45°	7642.8	7598.1	7216.3	6892.7	6779.4
47.5°	6965.8	6933.0	6560.1	6230.6	6093.4
50°	6315.6	6244.0	5907.0	5546.1	5420.8
52.5°	5684.8	5538.6	5241.9	4872.0	4779.6
55°	5067.4	4833.2	4563.3	4232.3	4181.6
57.5°	4455.9	4153.2	3890.8	3643.2	3641.7
60°	3865.4	3519.4	3251.0	3121.3	3163.0
62.5°	3312.1	2957.2	2666.4	2675.4	2751.4
65°	2817.0	2459.1	2160.9	2311.5	2412.9
67.5°	2392.0	2050.5	1747.8	2028.1	2125.1
70°	2032.6	1723.9	1427.2	1777.6	1882.0
72.5°	1729.9	1470.4	1203.5	1568.8	1674.7
75°	1473.4	1263.1	1054.3	1375.0	1488.3
77.5°	1264.6	1078.2	945.5	1190.0	1307.9
80°	1069.2	905.2	836.6	1011.1	1112.5
82.5°	847.0	733.7	693.4	821.7	873.9
85°	602.5	556.2	505.5	596.5	608.4
87.5°	331.1	343.0	283.3	343.0	344.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)