

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-LD5-48SE-W-AI-UNV-L835-ED4-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-LD5-48SE-W-AI-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

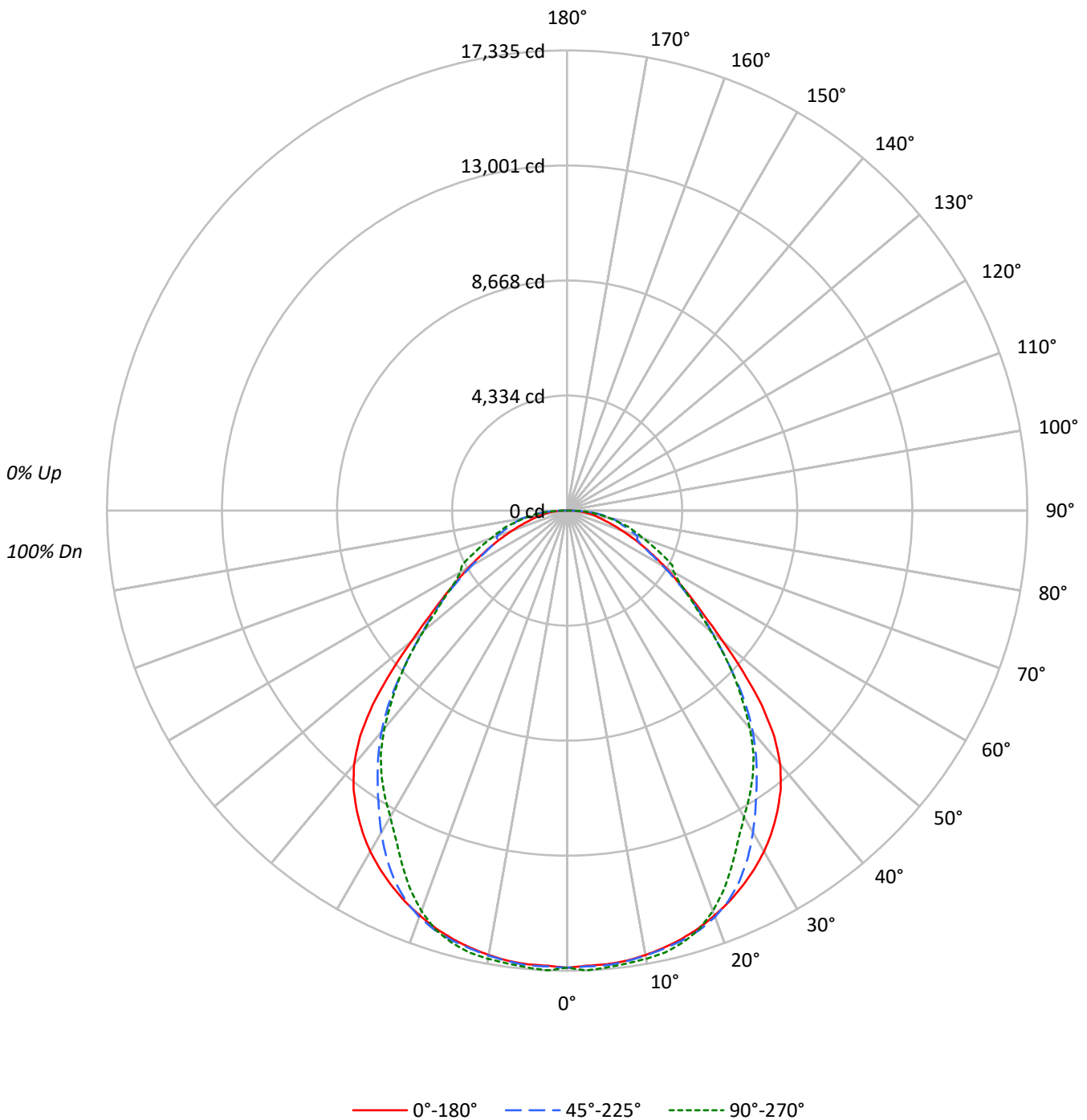
Lumens per Lamp: N/A
Luminaire Lumens: 39859.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 299.1
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23170	23170	23170
5°	23169	23219	23332
10°	23226	23255	23426
15°	23262	23349	23463
20°	23238	23325	22979
25°	23180	22832	21839
30°	23043	21755	20695
35°	22696	20447	20022
40°	21937	19118	18803
45°	19717	17072	17009
50°	15992	14870	14768
55°	13279	13032	13028
60°	11497	11161	12478
65°	9964	9902	12578
70°	8592	11108	11990
75°	7704	11384	12499
80°	8008	13402	12541
85°	9091	15442	14329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1639.6	4.1
10°-20°	4735.3	11.9
20°-30°	7032.9	17.6
30°-40°	7984.3	20.0
40°-50°	7137.6	17.9
50°-60°	4935.0	12.4
60°-70°	3256.4	8.2
70°-80°	2196.9	5.5
80°-90°	940.9	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°	13407.8	33.6
0°-40°	21392.1	53.7
0°-60°	33464.8	84.0
0°-90°	39859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	39859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17220	17220	17220	17220	17220	
5°	17154	17259	17191	17261	17275	###
15°	16700	16780	16762	16856	16844	4714
25°	15614	15762	15380	14921	14711	7194
35°	13818	13527	12449	12267	12189	8616
45°	10362	9485	8972	9040	8939	7880
55°	5661	5168	5556	5478	5554	5142
65°	3130	2779	3110	3637	3951	3123
75°	1482	1864	2190	2340	2404	1619
85°	589	819	1000	1006	928	614
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17220.3	17220.3	17220.3	17220.3	17220.3
2.5°	17161.8	17269.1	17189.1	17263.2	17335.4
5°	17154.0	17259.3	17191.1	17261.3	17274.9
7.5°	17105.3	17202.8	17122.8	17191.1	17206.7
10°	17000.0	17115.0	17021.4	17126.7	17146.2
12.5°	16863.5	16980.5	16898.6	17042.9	17050.7
15°	16699.7	16779.6	16762.1	16855.7	16844.0
17.5°	16493.0	16584.6	16571.0	16594.4	16539.8
20°	16229.7	16333.1	16290.2	16182.9	16048.4
22.5°	15947.0	16071.8	15902.1	15631.1	15441.9
25°	15613.5	15761.7	15379.5	14921.3	14710.7
27.5°	15245.0	15377.6	14741.9	14180.3	13961.9
30°	14831.6	14888.1	14002.8	13468.5	13320.3
32.5°	14353.8	14271.9	13213.1	12860.2	12774.4
35°	13817.6	13527.0	12448.7	12267.4	12189.4
37.5°	13213.1	12680.8	11694.1	11610.2	11528.3
40°	12489.7	11703.8	10884.8	10830.2	10705.4
42.5°	11555.6	10641.1	9985.9	9921.5	9810.4
45°	10362.2	9484.7	8971.9	9040.1	8938.7
47.5°	8989.4	8324.5	7998.8	8186.0	7998.8
50°	7640.0	7193.5	7103.8	7273.4	7055.0
52.5°	6534.4	6132.7	6318.0	6347.2	6216.6
55°	5660.8	5167.5	5555.5	5477.5	5553.6
57.5°	4900.3	4348.5	4826.2	4736.5	4997.8
60°	4272.4	3652.3	4147.6	4128.1	4637.1
62.5°	3656.2	3160.9	3558.7	3845.4	4471.3
65°	3129.7	2778.7	3110.2	3636.7	3950.7
67.5°	2624.7	2492.1	2845.0	3137.5	3480.7
70°	2184.0	2252.2	2823.6	2769.0	3047.8
72.5°	1813.5	2045.5	2492.1	2501.8	2698.8
75°	1482.0	1864.2	2189.8	2340.0	2404.3
77.5°	1232.4	1690.6	1977.3	2029.9	1967.5
80°	1033.5	1489.8	1729.6	1706.2	1618.5
82.5°	834.6	1129.0	1363.0	1384.5	1281.1
85°	588.9	819.0	1000.3	1006.2	928.2
87.5°	315.9	505.0	606.4	624.0	577.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)