

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-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 (P23760)
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-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

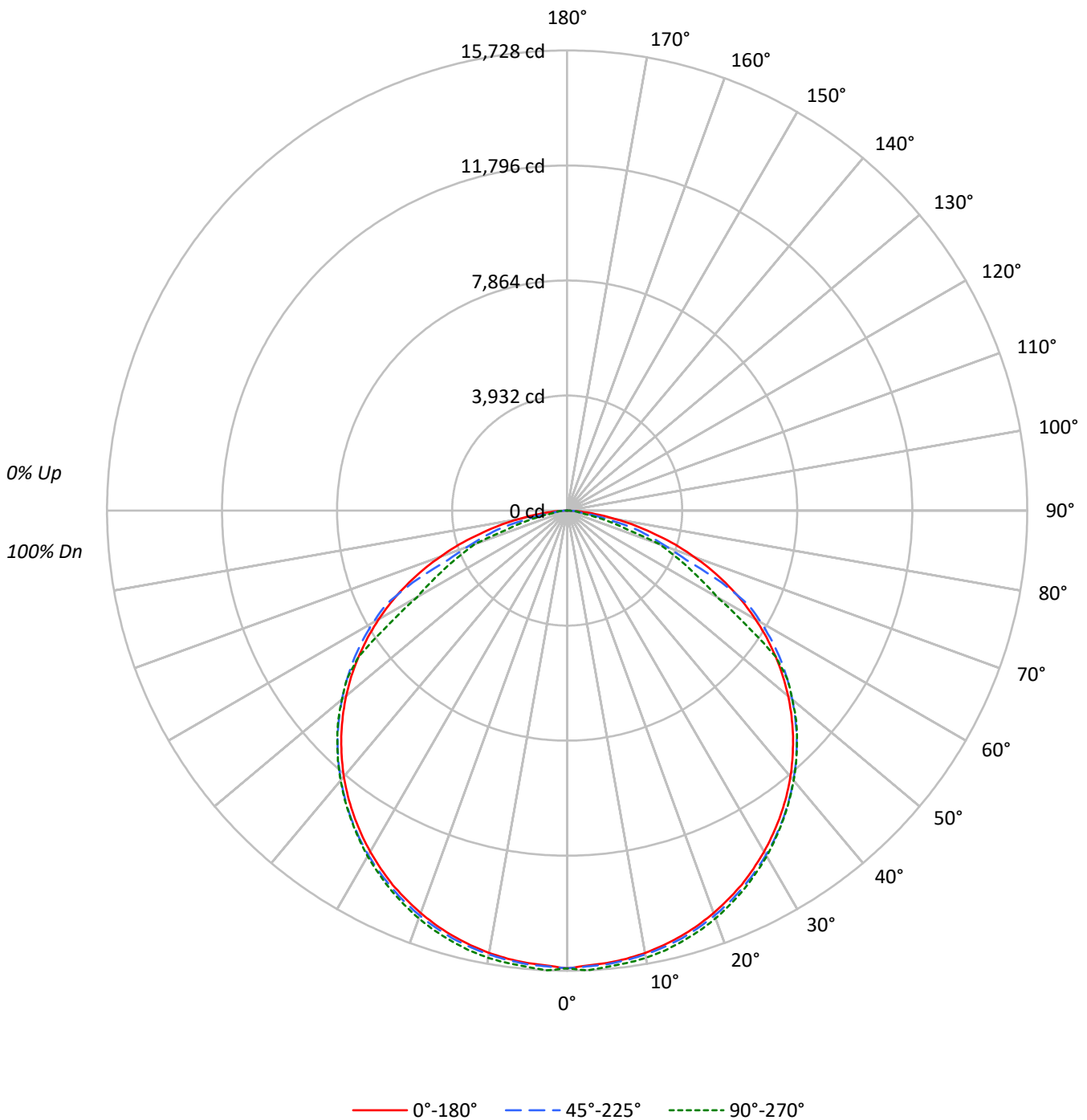
Lumens per Lamp: N/A
Luminaire Lumens: 45168.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21051	21051	21051
5°	20964	21023	21142
10°	20976	21051	21209
15°	20971	21083	21229
20°	20960	21094	21242
25°	20952	21103	21220
30°	20916	21120	21198
35°	20889	21130	21157
40°	20852	21128	21161
45°	20773	21119	21144
50°	20649	21030	21026
55°	20408	20918	20399
60°	20029	20610	15961
65°	19361	18549	14380
70°	18138	14271	13253
75°	16060	12443	8259
80°	13226	7325	3691
85°	8716	4488	4837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1484.7	3.3
10°-20°	4283.5	9.5
20°-30°	6567.2	14.5
30°-40°	8053.9	17.8
40°-50°	8551.9	18.9
50°-60°	7811.2	17.3
60°-70°	5439.7	12.0
70°-80°	2537.1	5.6
80°-90°	438.9	1.0
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°	12335.4	27.3
0°-40°	20389.3	45.1
0°-60°	36752.4	81.4
0°-90°	45168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15646	15646	15646	15646	15646	
5°	15522	15631	15565	15640	15653	###
15°	15055	15160	15136	15228	15241	4251
25°	14113	14237	14215	14320	14293	6504
35°	12718	12864	12864	12950	12881	7958
45°	10917	11082	11099	11170	11112	8420
55°	8700	8874	8917	8932	8696	7769
65°	6081	6269	5826	4633	4517	6000
75°	3089	3284	2394	1658	1589	3303
85°	565	371	291	311	313	729
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15645.8	15645.8	15645.8	15645.8	15645.8
2.5°	15563.3	15662.7	15597.0	15668.3	15728.3
5°	15522.0	15630.8	15565.1	15640.2	15653.3
7.5°	15454.5	15557.6	15497.6	15580.1	15600.8
10°	15353.2	15454.5	15407.6	15505.1	15523.9
12.5°	15216.2	15319.4	15283.8	15390.7	15403.8
15°	15054.9	15160.0	15135.6	15227.5	15240.6
17.5°	14865.5	14974.3	14946.1	15043.7	15053.0
20°	14638.5	14756.7	14732.3	14846.7	14835.5
22.5°	14383.4	14509.1	14490.3	14604.7	14571.0
25°	14113.3	14237.1	14214.6	14319.6	14293.4
27.5°	13796.3	13933.2	13912.6	14013.9	13972.6
30°	13462.4	13601.2	13593.7	13685.6	13644.3
32.5°	13102.2	13250.4	13242.9	13333.0	13269.2
35°	12717.7	12864.0	12864.0	12950.3	12880.9
37.5°	12310.7	12458.9	12460.7	12543.3	12477.6
40°	11871.7	12019.9	12029.3	12108.1	12048.1
42.5°	11410.3	11571.6	11579.1	11650.4	11594.1
45°	10917.0	11082.0	11098.9	11170.2	11112.1
47.5°	10401.1	10568.1	10583.1	10660.0	10618.7
50°	9864.7	10026.0	10046.6	10110.4	10044.7
52.5°	9298.2	9463.3	9491.4	9530.8	9500.8
55°	8699.8	8874.3	8917.4	8932.4	8696.1
57.5°	8080.8	8259.0	8300.3	7955.1	7195.4
60°	7443.0	7619.4	7658.8	6471.4	5931.2
62.5°	6779.0	6951.6	6994.7	5362.8	5190.3
65°	6081.2	6268.8	5826.1	4633.1	4516.9
67.5°	5364.7	5557.9	4406.2	3971.0	3901.6
70°	4610.6	4805.7	3627.7	3385.8	3368.9
72.5°	3886.6	4031.0	2976.8	2566.1	2160.9
75°	3089.4	3284.5	2393.5	1658.2	1588.8
77.5°	2395.4	2070.8	1444.3	1215.5	958.5
80°	1706.9	1384.3	945.4	504.6	476.4
82.5°	1082.3	904.1	371.4	380.8	397.7
85°	564.6	371.4	290.7	311.4	313.3
87.5°	181.9	159.4	174.4	172.6	170.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)