

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-L840-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-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

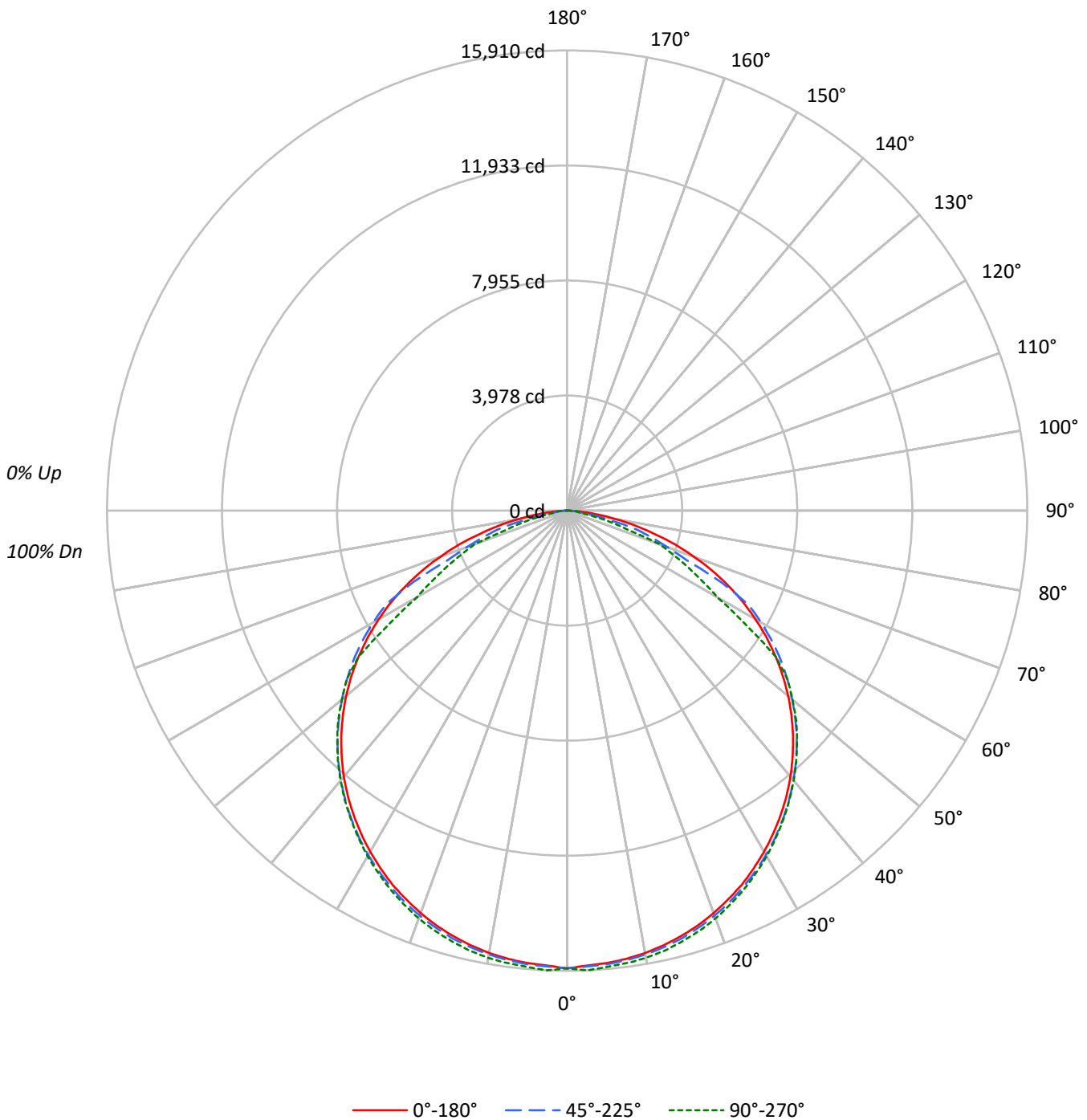
Lumens per Lamp: N/A
Luminaire Lumens: 45691.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21295	21295	21295
5°	21207	21266	21387
10°	21219	21294	21455
15°	21214	21327	21475
20°	21203	21339	21488
25°	21195	21347	21465
30°	21158	21364	21444
35°	21131	21374	21402
40°	21093	21373	21406
45°	21013	21364	21389
50°	20888	21273	21269
55°	20644	21161	20635
60°	20261	20848	16146
65°	19585	18763	14547
70°	18348	14436	13407
75°	16247	12587	8355
80°	13379	7410	3735
85°	8817	4540	4892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1501.9	3.3
10°-20°	4333.1	9.5
20°-30°	6643.2	14.5
30°-40°	8147.2	17.8
40°-50°	8651.0	18.9
50°-60°	7901.6	17.3
60°-70°	5502.7	12.0
70°-80°	2566.5	5.6
80°-90°	444.0	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°	12478.2	27.3
0°-40°	20625.4	45.1
0°-60°	37177.9	81.4
0°-90°	45691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15827	15827	15827	15827	15827	
5°	15702	15812	15745	15821	15834	###
15°	15229	15336	15311	15404	15417	4300
25°	14277	14402	14379	14485	14459	6579
35°	12865	13013	13013	13100	13030	8050
45°	11043	11210	11227	11300	11241	8517
55°	8800	8977	9021	9036	8797	7859
65°	6152	6341	5894	4687	4569	6070
75°	3125	3322	2421	1677	1607	3341
85°	571	376	294	315	317	738
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15826.9	15826.9	15826.9	15826.9	15826.9
2.5°	15743.5	15844.0	15777.6	15849.7	15910.4
5°	15701.7	15811.8	15745.4	15821.3	15834.5
7.5°	15633.4	15737.8	15677.0	15760.5	15781.4
10°	15530.9	15633.4	15586.0	15684.6	15703.6
12.5°	15392.4	15496.8	15460.7	15568.9	15582.2
15°	15229.2	15335.5	15310.8	15403.8	15417.1
17.5°	15037.6	15147.6	15119.2	15217.9	15227.3
20°	14808.0	14927.5	14902.9	15018.6	15007.2
22.5°	14549.9	14677.1	14658.1	14773.8	14739.7
25°	14276.7	14401.9	14379.2	14485.4	14458.9
27.5°	13956.0	14094.5	14073.7	14176.1	14134.4
30°	13618.3	13758.7	13751.1	13844.1	13802.3
32.5°	13254.0	13403.9	13396.3	13487.3	13422.8
35°	12865.0	13013.0	13013.0	13100.3	13030.0
37.5°	12453.2	12603.1	12605.0	12688.5	12622.1
40°	12009.2	12159.1	12168.6	12248.3	12187.6
42.5°	11542.4	11705.6	11713.2	11785.3	11728.4
45°	11043.4	11210.4	11227.4	11299.5	11240.7
47.5°	10521.6	10690.4	10705.6	10783.4	10741.7
50°	9978.9	10142.1	10162.9	10227.5	10161.0
52.5°	9405.8	9572.8	9601.3	9641.1	9610.8
55°	8800.5	8977.0	9020.7	9035.8	8796.8
57.5°	8174.4	8354.6	8396.4	8047.2	7278.8
60°	7529.2	7707.6	7747.4	6546.3	5999.9
62.5°	6857.5	7032.1	7075.7	5424.9	5250.3
65°	6151.7	6341.4	5893.6	4686.8	4569.2
67.5°	5426.8	5622.3	4457.2	4017.0	3946.8
70°	4664.0	4861.4	3669.7	3425.0	3407.9
72.5°	3931.6	4077.7	3011.3	2595.8	2185.9
75°	3125.2	3322.5	2421.2	1677.4	1607.2
77.5°	2423.1	2094.8	1461.1	1229.6	969.6
80°	1726.7	1400.3	956.3	510.4	482.0
82.5°	1094.9	914.6	375.7	385.2	402.3
85°	571.1	375.7	294.1	315.0	316.9
87.5°	184.1	161.3	176.5	174.6	172.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)