

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-CLI-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 (P23766)
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-CLI-UNV-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

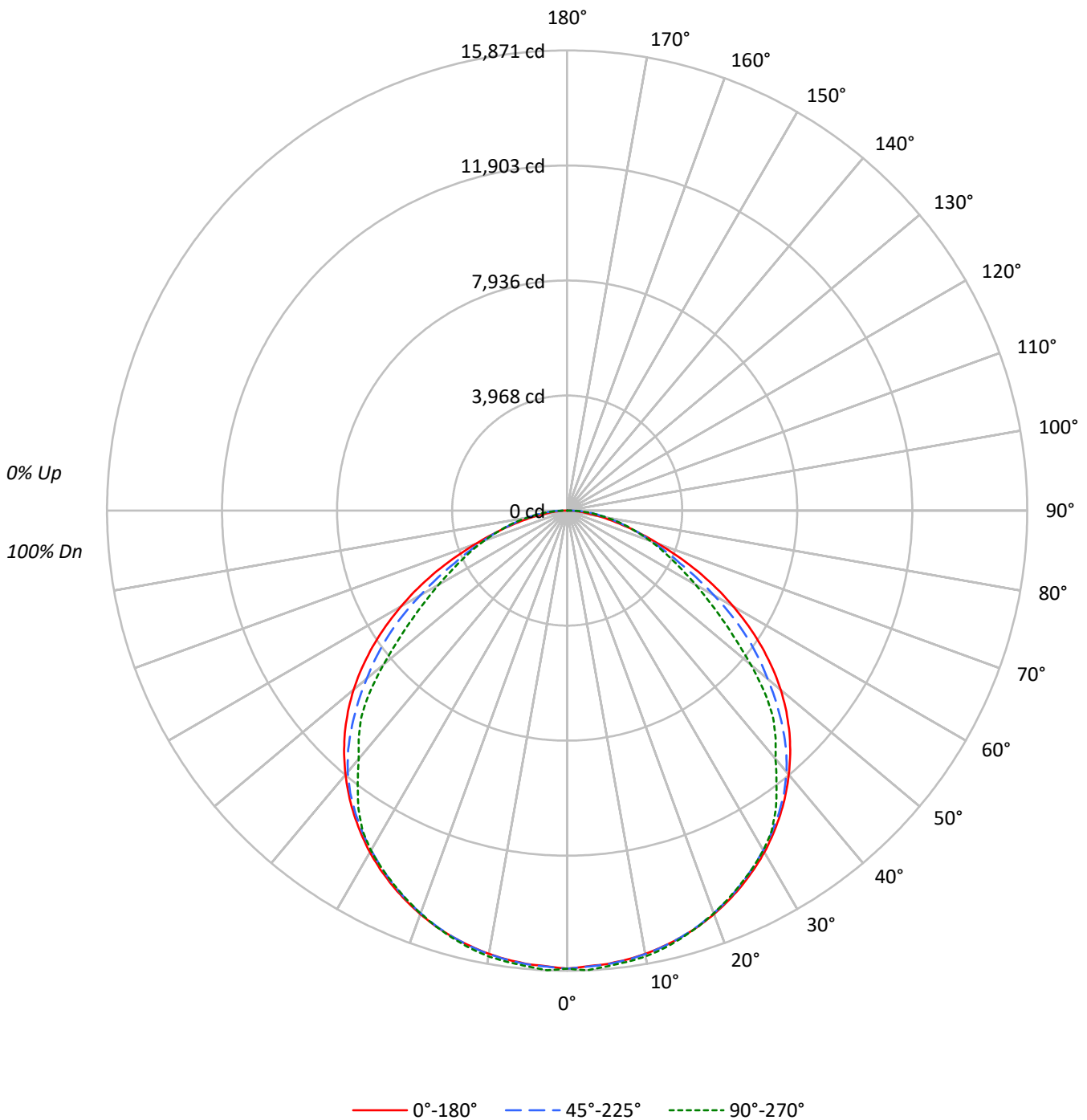
Lumens per Lamp: N/A
Luminaire Lumens: 42447.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21257	21257	21257
5°	21200	21216	21310
10°	21212	21223	21334
15°	21215	21212	21262
20°	21210	21161	21166
25°	21177	21098	21073
30°	21143	21016	21028
35°	21044	20913	20617
40°	20894	20681	19638
45°	20629	19968	19095
50°	20132	18905	17294
55°	19216	17681	15292
60°	17833	15776	13790
65°	15851	13659	12680
70°	13154	12207	11953
75°	10639	11171	11309
80°	8450	10684	10640
85°	6617	11478	10950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1498.3	3.5
10°-20°	4309.7	10.2
20°-30°	6571.5	15.5
30°-40°	7950.6	18.7
40°-50°	8053.3	19.0
50°-60°	6656.2	15.7
60°-70°	4396.3	10.4
70°-80°	2292.4	5.4
80°-90°	718.7	1.7
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°	12379.5	29.2
0°-40°	20330.1	47.9
0°-60°	35039.6	82.5
0°-90°	42447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15799	15799	15799	15799	15799	
5°	15697	15791	15708	15776	15778	###
15°	15230	15308	15228	15276	15264	4301
25°	14265	14322	14212	14248	14194	6577
35°	12812	12829	12732	12715	12552	8014
45°	10841	10813	10494	10168	10035	8348
55°	8192	8070	7537	6805	6519	7301
65°	4979	4834	4290	4011	3983	4917
75°	2046	2082	2149	2177	2175	2229
85°	429	552	744	738	709	520
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15799.0	15799.0	15799.0	15799.0	15799.0
2.5°	15732.6	15825.6	15747.8	15816.1	15871.1
5°	15696.6	15791.4	15708.0	15776.3	15778.2
7.5°	15626.4	15721.3	15635.9	15704.2	15702.3
10°	15525.9	15615.0	15533.5	15615.0	15615.0
12.5°	15389.3	15476.6	15396.9	15472.8	15461.4
15°	15230.0	15307.8	15228.1	15275.5	15264.2
17.5°	15042.3	15112.4	15023.3	15063.1	15040.4
20°	14812.8	14877.2	14778.6	14829.8	14782.4
22.5°	14554.8	14615.5	14515.0	14552.9	14499.8
25°	14264.6	14321.5	14211.5	14247.6	14194.5
27.5°	13951.7	14002.9	13879.6	13923.2	13881.5
30°	13608.4	13633.1	13526.8	13583.7	13534.4
32.5°	13225.3	13240.4	13147.5	13198.7	13115.3
35°	12811.8	12828.9	12732.1	12715.1	12552.0
37.5°	12369.9	12377.5	12286.4	12132.8	11863.5
40°	11895.7	11891.9	11774.3	11419.7	11180.7
42.5°	11389.3	11387.4	11180.7	10776.7	10640.2
45°	10841.2	10812.7	10494.1	10167.9	10035.1
47.5°	10253.2	10222.9	9777.2	9517.3	9215.8
50°	9617.9	9564.8	9031.8	8677.1	8261.8
52.5°	8933.2	8851.6	8309.2	7736.4	7343.8
55°	8191.6	8070.2	7537.2	6805.1	6518.8
57.5°	7419.7	7239.5	6721.7	6008.6	5775.3
60°	6626.9	6425.8	5862.5	5276.5	5124.7
62.5°	5811.3	5612.2	5037.5	4595.6	4512.1
65°	4978.7	4834.5	4290.2	4011.4	3982.9
67.5°	4125.2	4074.0	3658.6	3516.4	3505.0
70°	3343.8	3334.3	3102.9	3030.8	3038.4
72.5°	2672.4	2661.0	2626.8	2590.8	2592.7
75°	2046.5	2082.5	2148.9	2177.3	2175.4
77.5°	1526.8	1600.8	1741.1	1798.0	1788.5
80°	1090.6	1200.6	1378.9	1432.0	1373.2
82.5°	726.4	842.1	1052.6	1060.2	1012.8
85°	428.6	551.9	743.5	737.8	709.3
87.5°	212.4	331.9	445.7	426.7	407.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)