

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-L740-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-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

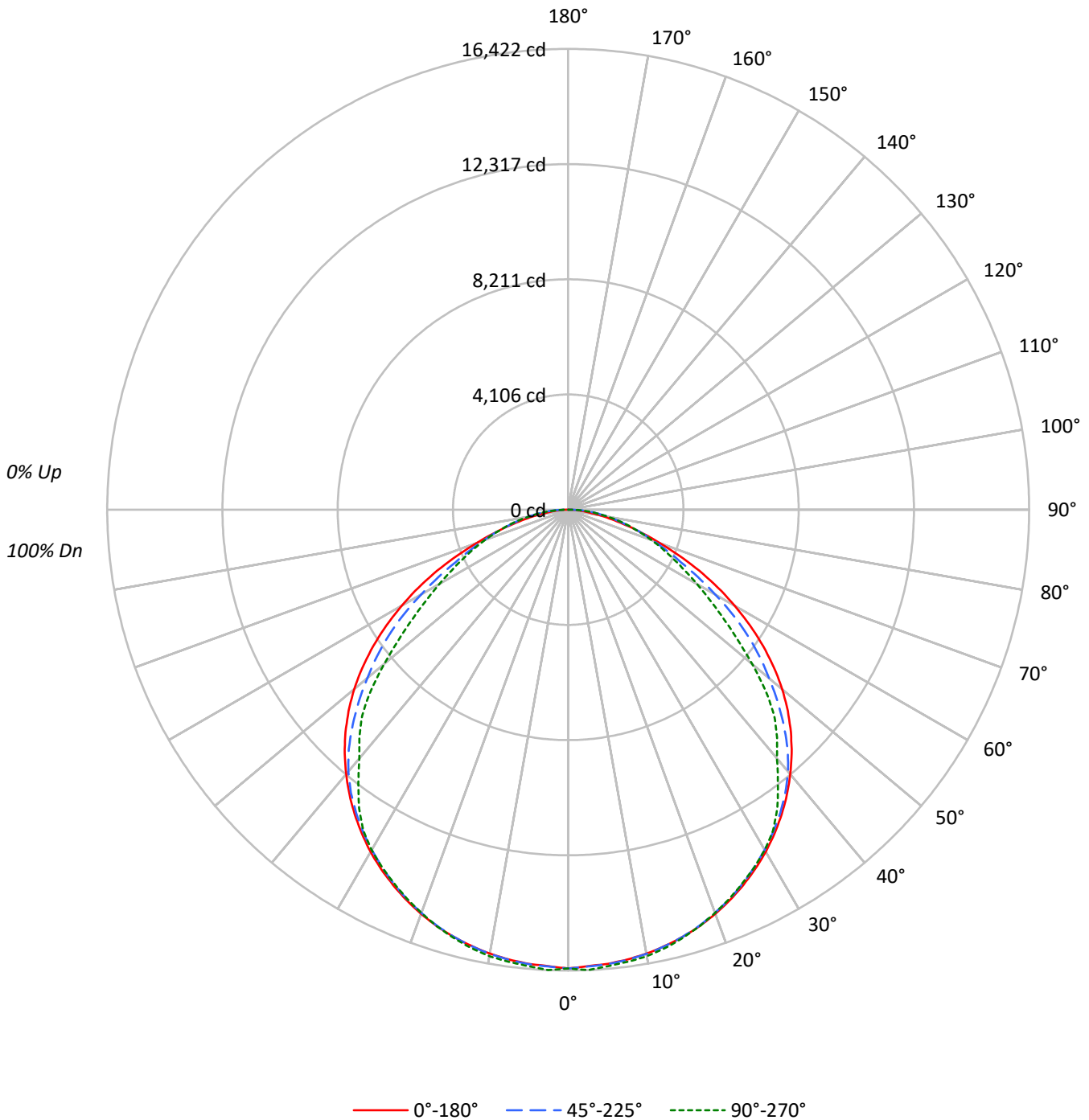
Lumens per Lamp: N/A
Luminaire Lumens: 43919.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	21995	21995	21995
5°	21935	21951	22049
10°	21948	21959	22074
15°	21950	21948	22000
20°	21945	21894	21900
25°	21911	21830	21804
30°	21876	21745	21757
35°	21774	21638	21332
40°	21618	21398	20319
45°	21344	20661	19757
50°	20830	19561	17893
55°	19882	18294	15822
60°	18451	16323	14269
65°	16400	14132	13120
70°	13610	12630	12368
75°	11007	11559	11701
80°	8743	11055	11009
85°	6847	11876	11330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1550.3	3.5
10°-20°	4459.2	10.2
20°-30°	6799.4	15.5
30°-40°	8226.3	18.7
40°-50°	8332.5	19.0
50°-60°	6887.0	15.7
60°-70°	4548.8	10.4
70°-80°	2371.9	5.4
80°-90°	743.6	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°	12808.8	29.2
0°-40°	21035.2	47.9
0°-60°	36254.7	82.5
0°-90°	43919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16347	16347	16347	16347	16347	
5°	16241	16339	16253	16323	16325	###
15°	15758	15839	15756	15805	15794	4450
25°	14759	14818	14704	14742	14687	6805
35°	13256	13274	13174	13156	12987	8291
45°	11217	11188	10858	10520	10383	8637
55°	8476	8350	7799	7041	6745	7554
65°	5151	5002	4439	4150	4121	5088
75°	2117	2155	2223	2253	2251	2307
85°	444	571	769	763	734	538
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16346.9	16346.9	16346.9	16346.9	16346.9
2.5°	16278.2	16374.4	16293.9	16364.6	16421.5
5°	16240.9	16339.1	16252.7	16323.4	16325.3
7.5°	16168.3	16266.4	16178.1	16248.8	16246.8
10°	16064.3	16156.5	16072.2	16156.5	16156.5
12.5°	15923.0	16013.3	15930.9	16009.4	15997.6
15°	15758.2	15838.6	15756.2	15805.3	15793.5
17.5°	15563.9	15636.5	15544.3	15585.5	15561.9
20°	15326.4	15393.2	15291.1	15344.1	15295.0
22.5°	15059.6	15122.4	15018.3	15057.6	15002.6
25°	14759.3	14818.2	14704.4	14741.6	14686.7
27.5°	14435.5	14488.5	14360.9	14406.1	14362.9
30°	14080.3	14105.8	13995.9	14054.8	14003.8
32.5°	13683.9	13699.6	13603.4	13656.4	13570.1
35°	13256.1	13273.8	13173.7	13156.0	12987.2
37.5°	12798.9	12806.7	12712.5	12553.6	12274.9
40°	12308.3	12304.3	12182.7	11815.7	11568.4
42.5°	11784.3	11782.3	11568.4	11150.4	11009.1
45°	11217.2	11187.7	10858.0	10520.5	10383.1
47.5°	10608.8	10577.4	10116.2	9847.4	9535.4
50°	9951.4	9896.4	9345.0	8978.0	8548.3
52.5°	9243.0	9158.6	8597.3	8004.7	7598.5
55°	8475.7	8350.1	7798.6	7041.1	6744.8
57.5°	7677.0	7490.5	6954.8	6216.9	5975.5
60°	6856.7	6648.7	6065.8	5459.4	5302.4
62.5°	6012.8	5806.8	5212.2	4754.9	4668.6
65°	5151.3	5002.2	4439.0	4150.5	4121.1
67.5°	4268.2	4215.3	3785.5	3638.3	3626.5
70°	3459.7	3449.9	3210.5	3135.9	3143.8
72.5°	2765.0	2753.3	2717.9	2680.7	2682.6
75°	2117.4	2154.7	2223.4	2252.9	2250.9
77.5°	1579.7	1656.3	1801.5	1860.4	1850.6
80°	1128.4	1242.2	1426.7	1481.6	1420.8
82.5°	751.6	871.3	1089.1	1097.0	1047.9
85°	443.5	571.1	769.3	763.4	733.9
87.5°	219.8	343.4	461.2	441.5	421.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)