

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-LD5-24SE-W-CLI-UNV-L835-ED2-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-LD5-24SE-W-CLI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

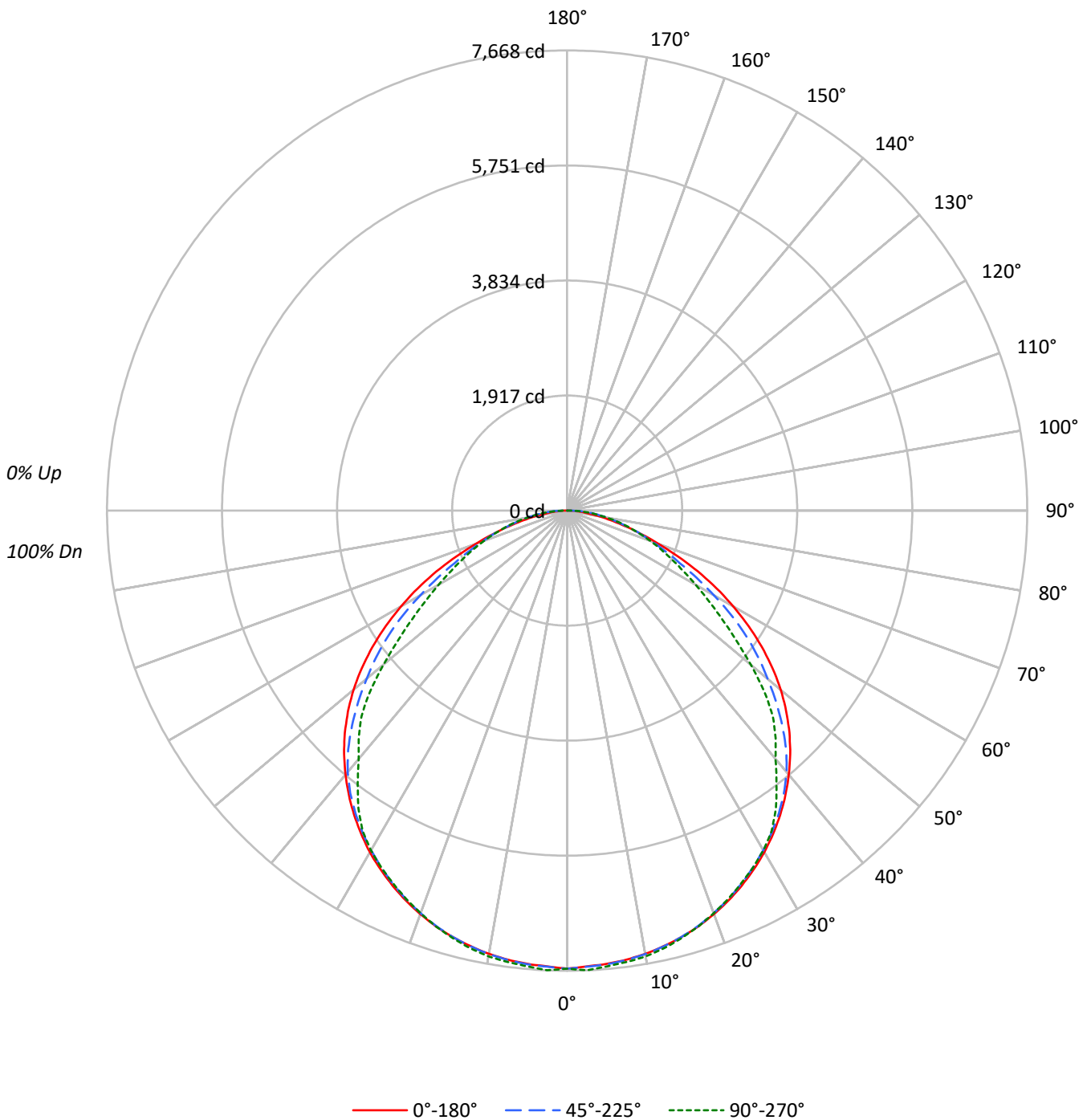
Lumens per Lamp: N/A
Luminaire Lumens: 20507.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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°	10270	10270	10270
5°	10242	10250	10295
10°	10248	10253	10307
15°	10249	10248	10272
20°	10247	10223	10226
25°	10231	10193	10181
30°	10214	10153	10159
35°	10167	10104	9961
40°	10094	9991	9487
45°	9966	9647	9225
50°	9726	9134	8355
55°	9283	8542	7388
60°	8615	7622	6663
65°	7658	6599	6126
70°	6355	5897	5775
75°	5140	5397	5464
80°	4083	5162	5140
85°	3197	5545	5291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.9	3.5
10°-20°	2082.1	10.2
20°-30°	3174.8	15.5
30°-40°	3841.1	18.7
40°-50°	3890.7	19.0
50°-60°	3215.7	15.7
60°-70°	2123.9	10.4
70°-80°	1107.5	5.4
80°-90°	347.2	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°	5980.8	29.2
0°-40°	9821.9	47.9
0°-60°	16928.3	82.5
0°-90°	20507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7633	7633	7633	7633	7633	
5°	7583	7629	7589	7622	7623	721
15°	7358	7396	7357	7380	7374	2078
25°	6892	6919	6866	6883	6858	3178
35°	6190	6198	6151	6143	6064	3872
45°	5238	5224	5070	4912	4848	4033
55°	3958	3899	3641	3288	3149	3527
65°	2405	2336	2073	1938	1924	2376
75°	989	1006	1038	1052	1051	1077
85°	207	267	359	356	343	251
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7632.8	7632.8	7632.8	7632.8	7632.8
2.5°	7600.8	7645.6	7608.1	7641.1	7667.6
5°	7583.3	7629.2	7588.8	7621.8	7622.7
7.5°	7549.4	7595.3	7554.0	7587.0	7586.1
10°	7500.9	7543.9	7504.5	7543.9	7543.9
12.5°	7434.9	7477.0	7438.6	7475.2	7469.7
15°	7357.9	7395.5	7357.0	7379.9	7374.4
17.5°	7267.2	7301.1	7258.1	7277.3	7266.3
20°	7156.3	7187.5	7139.8	7164.6	7141.7
22.5°	7031.7	7061.0	7012.5	7030.8	7005.2
25°	6891.5	6919.0	6865.9	6883.3	6857.6
27.5°	6740.3	6765.1	6705.5	6726.6	6706.4
30°	6574.5	6586.4	6535.1	6562.6	6538.8
32.5°	6389.4	6396.7	6351.8	6376.6	6336.2
35°	6189.6	6197.9	6151.2	6142.9	6064.1
37.5°	5976.1	5979.8	5935.8	5861.6	5731.5
40°	5747.1	5745.2	5688.4	5517.1	5401.6
42.5°	5502.4	5501.5	5401.6	5206.4	5140.5
45°	5237.6	5223.9	5069.9	4912.3	4848.2
47.5°	4953.5	4938.9	4723.6	4598.0	4452.3
50°	4646.6	4620.9	4363.4	4192.1	3991.4
52.5°	4315.8	4276.4	4014.3	3737.6	3547.9
55°	3957.5	3898.9	3641.4	3287.7	3149.3
57.5°	3584.6	3497.5	3247.4	2902.9	2790.1
60°	3201.6	3104.4	2832.3	2549.2	2475.9
62.5°	2807.6	2711.3	2433.7	2220.2	2179.9
65°	2405.3	2335.7	2072.7	1938.0	1924.2
67.5°	1993.0	1968.2	1767.6	1698.8	1693.3
70°	1615.4	1610.9	1499.1	1464.3	1467.9
72.5°	1291.1	1285.6	1269.1	1251.7	1252.6
75°	988.7	1006.1	1038.2	1051.9	1051.0
77.5°	737.6	773.4	841.2	868.7	864.1
80°	526.9	580.0	666.2	691.8	663.4
82.5°	350.9	406.8	508.5	512.2	489.3
85°	207.1	266.6	359.2	356.4	342.7
87.5°	102.6	160.4	215.3	206.2	197.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)