

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-L850-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-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

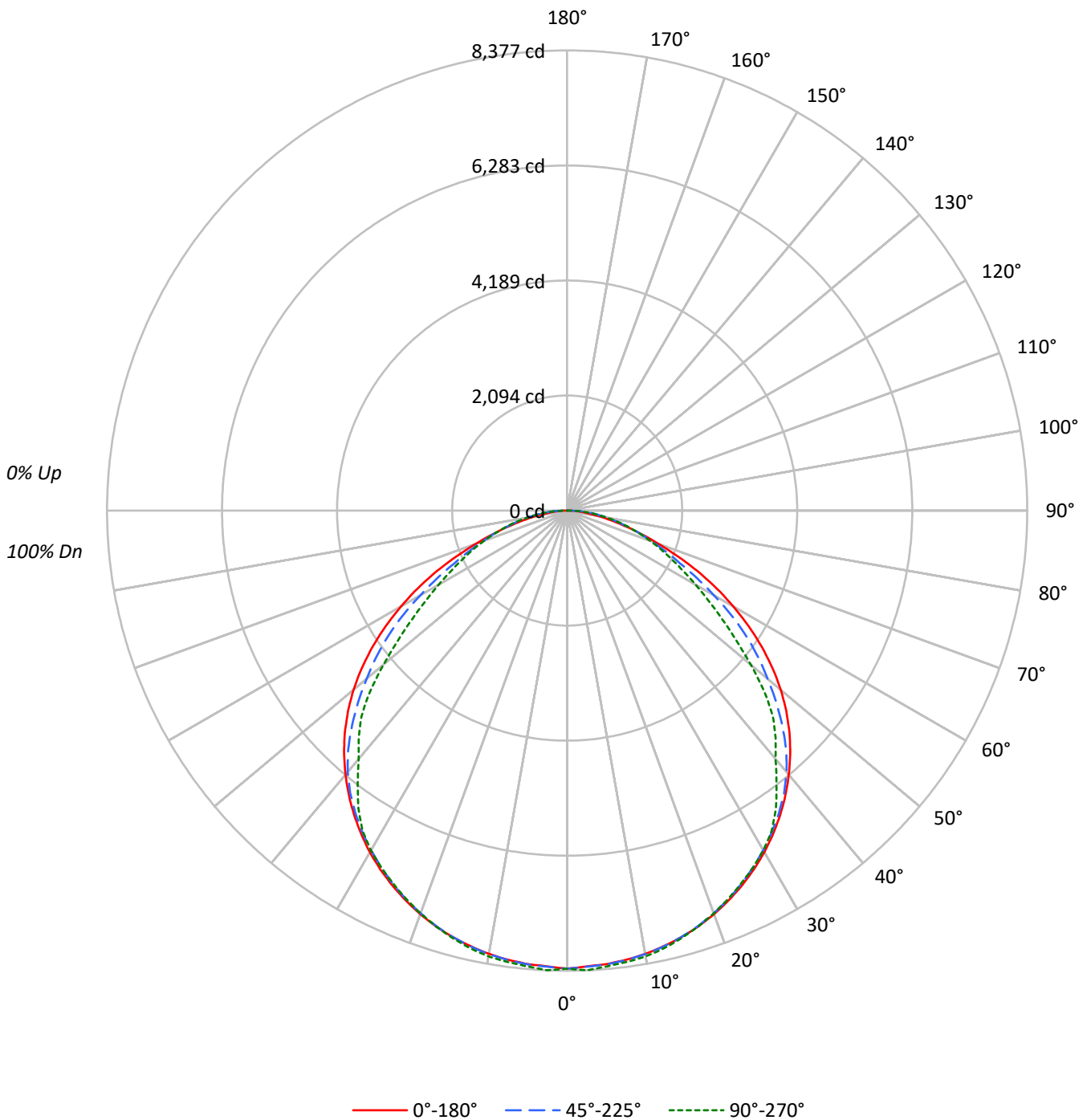
Lumens per Lamp: N/A
Luminaire Lumens: 22404.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11220	11220	11220
5°	11190	11198	11248
10°	11196	11201	11260
15°	11197	11196	11222
20°	11195	11169	11172
25°	11177	11136	11122
30°	11159	11092	11099
35°	11107	11038	10882
40°	11028	10915	10365
45°	10888	10539	10079
50°	10626	9979	9128
55°	10142	9332	8071
60°	9412	8327	7279
65°	8366	7209	6693
70°	6943	6443	6309
75°	5615	5896	5969
80°	4460	5639	5616
85°	3492	6058	5780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.8	3.5
10°-20°	2274.7	10.2
20°-30°	3468.5	15.5
30°-40°	4196.4	18.7
40°-50°	4250.6	19.0
50°-60°	3513.2	15.7
60°-70°	2320.4	10.4
70°-80°	1210.0	5.4
80°-90°	379.3	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°	6534.1	29.2
0°-40°	10730.5	47.9
0°-60°	18494.3	82.5
0°-90°	22404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8339	8339	8339	8339	8339	
5°	8285	8335	8291	8327	8328	788
15°	8039	8080	8038	8063	8057	2270
25°	7529	7559	7501	7520	7492	3472
35°	6762	6771	6720	6711	6625	4230
45°	5722	5707	5539	5367	5297	4406
55°	4324	4260	3978	3592	3441	3854
65°	2628	2552	2264	2117	2102	2595
75°	1080	1099	1134	1149	1148	1177
85°	226	291	392	389	374	275
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8338.9	8338.9	8338.9	8338.9	8338.9
2.5°	8303.9	8352.9	8311.9	8347.9	8376.9
5°	8284.8	8334.9	8290.8	8326.9	8327.9
7.5°	8247.8	8297.9	8252.8	8288.8	8287.8
10°	8194.7	8241.8	8198.7	8241.8	8241.8
12.5°	8122.7	8168.7	8126.7	8166.7	8160.7
15°	8038.6	8079.6	8037.6	8062.6	8056.6
17.5°	7939.5	7976.5	7929.5	7950.5	7938.5
20°	7818.3	7852.4	7800.3	7827.3	7802.3
22.5°	7682.2	7714.2	7661.2	7681.2	7653.2
25°	7529.0	7559.1	7501.0	7520.0	7492.0
27.5°	7363.9	7390.9	7325.8	7348.8	7326.8
30°	7182.7	7195.7	7139.6	7169.6	7143.6
32.5°	6980.4	6988.5	6939.4	6966.4	6922.4
35°	6762.2	6771.2	6720.2	6711.2	6625.1
37.5°	6529.0	6533.0	6484.9	6403.8	6261.7
40°	6278.7	6276.7	6214.6	6027.4	5901.3
42.5°	6011.4	6010.4	5901.3	5688.1	5616.0
45°	5722.1	5707.1	5538.9	5366.7	5296.7
47.5°	5411.8	5395.8	5160.5	5023.4	4864.2
50°	5076.4	5048.4	4767.1	4579.9	4360.7
52.5°	4715.0	4672.0	4385.7	4083.4	3876.1
55°	4323.6	4259.5	3978.2	3591.8	3440.7
57.5°	3916.2	3821.1	3547.8	3171.4	3048.3
60°	3497.7	3391.6	3094.3	2785.0	2704.9
62.5°	3067.3	2962.2	2658.8	2425.6	2381.5
65°	2627.8	2551.7	2264.4	2117.3	2102.2
67.5°	2177.3	2150.3	1931.1	1856.0	1850.0
70°	1764.9	1759.9	1637.7	1599.7	1603.7
72.5°	1410.5	1404.5	1386.5	1367.5	1368.5
75°	1080.2	1099.2	1134.2	1149.2	1148.2
77.5°	805.9	844.9	919.0	949.0	944.0
80°	575.6	633.7	727.8	755.8	724.8
82.5°	383.4	444.5	555.6	559.6	534.6
85°	226.2	291.3	392.4	389.4	374.4
87.5°	112.1	175.2	235.3	225.2	215.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)