

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-LD5-24HE-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-LD5-24HE-W-CLI-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

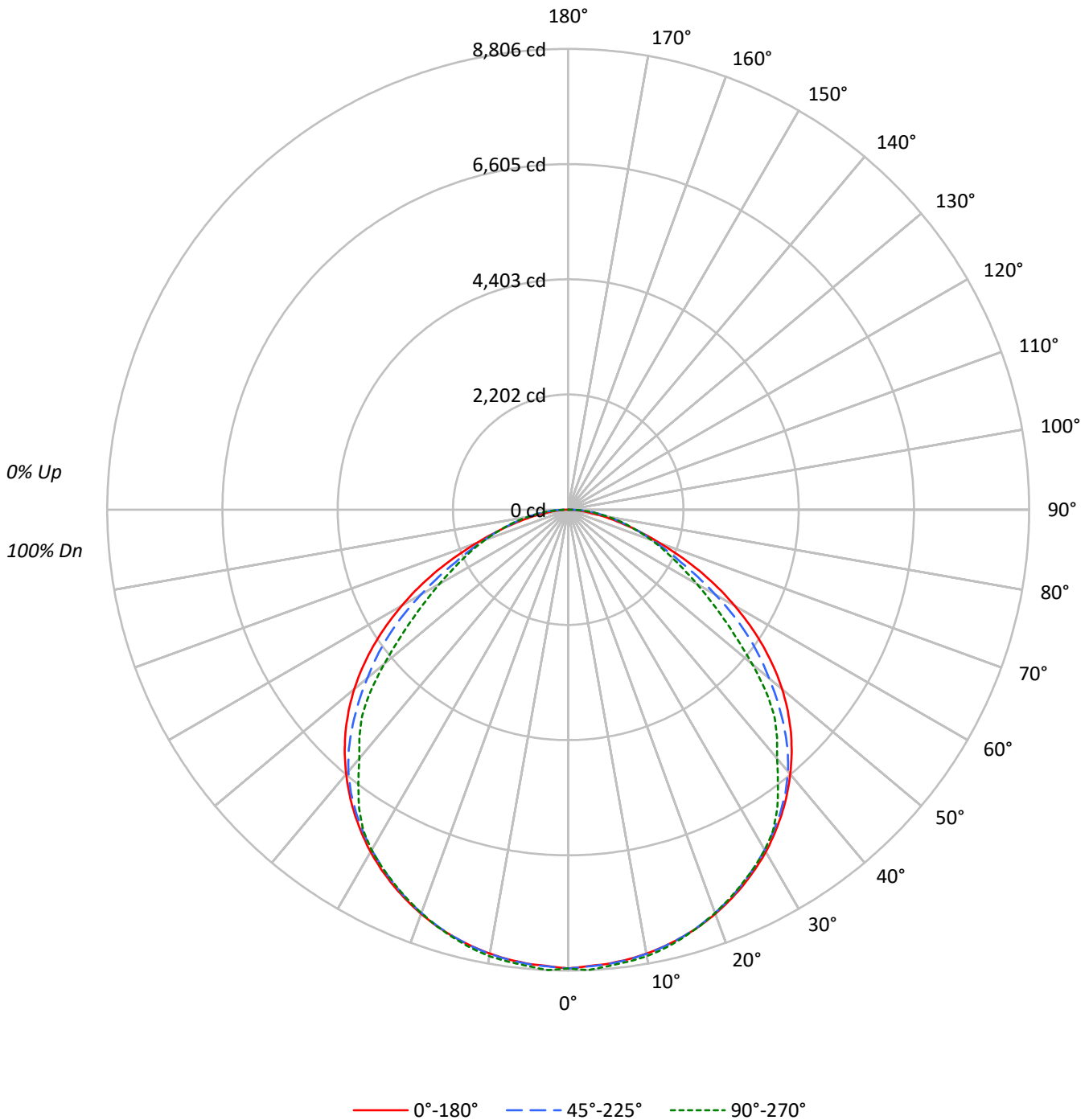
Lumens per Lamp: N/A
Luminaire Lumens: 23552.0 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
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°	11795	11795	11795
5°	11763	11772	11824
10°	11770	11776	11837
15°	11771	11770	11797
20°	11768	11741	11744
25°	11750	11707	11692
30°	11731	11661	11667
35°	11676	11604	11439
40°	11593	11475	10896
45°	11446	11079	10595
50°	11170	10490	9595
55°	10662	9810	8485
60°	9895	8753	7652
65°	8795	7578	7036
70°	7299	6773	6632
75°	5903	6198	6275
80°	4689	5928	5903
85°	3671	6368	6076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.3	3.5
10°-20°	2391.3	10.2
20°-30°	3646.3	15.5
30°-40°	4411.4	18.7
40°-50°	4468.4	19.0
50°-60°	3693.3	15.7
60°-70°	2439.3	10.4
70°-80°	1272.0	5.4
80°-90°	398.8	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°	6868.9	29.2
0°-40°	11280.3	47.9
0°-60°	19442.0	82.5
0°-90°	23552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8766	8766	8766	8766	8766	
5°	8709	8762	8716	8754	8755	828
15°	8450	8494	8449	8476	8469	2386
25°	7915	7946	7885	7905	7876	3650
35°	7109	7118	7064	7055	6964	4446
45°	6015	6000	5823	5642	5568	4632
55°	4545	4478	4182	3776	3617	4051
65°	2762	2682	2380	2226	2210	2728
75°	1136	1156	1192	1208	1207	1237
85°	238	306	412	409	394	289
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8766.2	8766.2	8766.2	8766.2	8766.2
2.5°	8729.4	8780.9	8737.8	8775.7	8806.2
5°	8709.4	8762.0	8715.7	8753.6	8754.6
7.5°	8670.4	8723.0	8675.7	8713.6	8712.5
10°	8614.6	8664.1	8618.9	8664.1	8664.1
12.5°	8538.9	8587.3	8543.1	8585.2	8578.9
15°	8450.5	8493.6	8449.4	8475.7	8469.4
17.5°	8346.3	8385.2	8335.8	8357.9	8345.2
20°	8219.0	8254.7	8200.0	8228.4	8202.1
22.5°	8075.8	8109.5	8053.7	8074.8	8045.3
25°	7914.8	7946.4	7885.4	7905.4	7875.9
27.5°	7741.2	7769.6	7701.2	7725.4	7702.2
30°	7550.7	7564.4	7505.5	7537.0	7509.7
32.5°	7338.1	7346.5	7295.0	7323.4	7277.1
35°	7108.7	7118.2	7064.5	7055.0	6964.5
37.5°	6863.5	6867.7	6817.2	6732.0	6582.5
40°	6600.4	6598.3	6533.1	6336.3	6203.7
42.5°	6319.4	6318.4	6203.7	5979.5	5903.8
45°	6015.3	5999.5	5822.7	5641.7	5568.1
47.5°	5689.1	5672.2	5424.9	5280.8	5113.4
50°	5336.5	5307.1	5011.4	4814.6	4584.1
52.5°	4956.6	4911.4	4610.4	4292.6	4074.8
55°	4545.2	4477.8	4182.1	3775.9	3617.0
57.5°	4116.8	4016.9	3729.6	3333.9	3204.4
60°	3677.0	3565.4	3252.9	2927.7	2843.5
62.5°	3224.4	3113.9	2795.1	2549.9	2503.6
65°	2762.5	2682.5	2380.4	2225.7	2210.0
67.5°	2288.9	2260.5	2030.0	1951.1	1944.8
70°	1855.3	1850.1	1721.7	1681.7	1685.9
72.5°	1482.8	1476.5	1457.5	1437.5	1438.6
75°	1135.5	1155.5	1192.3	1208.1	1207.1
77.5°	847.2	888.2	966.1	997.6	992.4
80°	605.1	666.1	765.1	794.5	761.9
82.5°	403.1	467.2	584.1	588.3	562.0
85°	237.8	306.2	412.5	409.4	393.6
87.5°	117.9	184.2	247.3	236.8	226.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)