

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLWG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23110.0 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

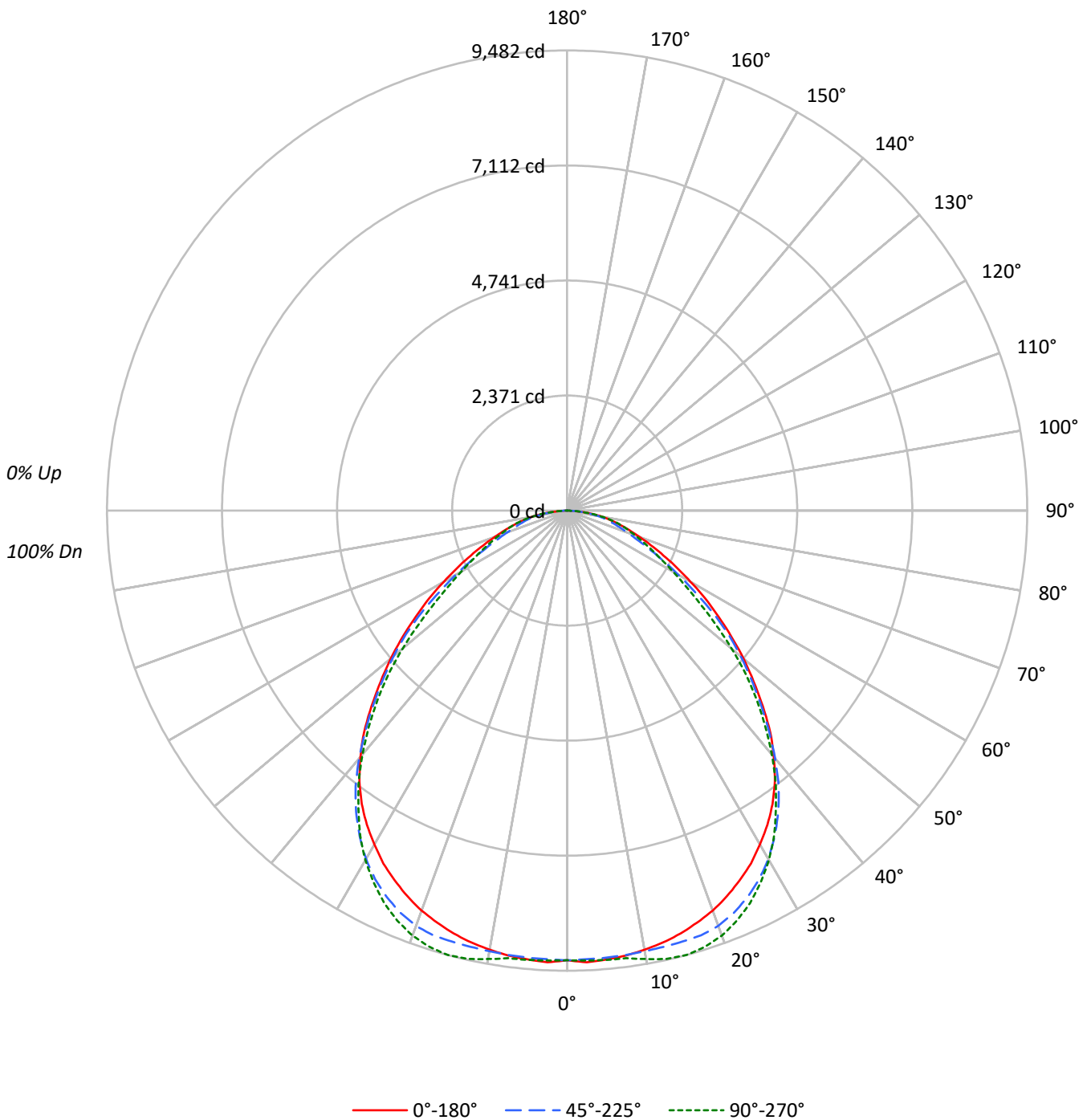
Input Watts (W): 146.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12468	12468	12468
5°	12541	12490	12551
10°	12553	12595	12820
15°	12568	12805	13207
20°	12560	13039	13343
25°	12483	13051	13242
30°	12339	12878	12919
35°	12119	12461	12311
40°	11641	11712	11528
45°	10847	10733	10515
50°	9931	9771	9271
55°	8920	8589	7838
60°	7911	7107	6766
65°	6970	5905	6141
70°	6234	5124	5848
75°	5840	4982	5914
80°	5686	5037	5630
85°	4539	3984	4133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.7	3.8
10°-20°	2600.1	11.3
20°-30°	4000.0	17.3
30°-40°	4668.2	20.2
40°-50°	4338.0	18.8
50°-60°	3215.5	13.9
60°-70°	1965.7	8.5
70°-80°	1119.6	4.8
80°-90°	320.2	1.4
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°	7482.8	32.4
0°-40°	12151.0	52.6
0°-60°	19704.5	85.3
0°-90°	23110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9266	9266	9266	9266	9266	
5°	9286	9242	9247	9240	9293	883
15°	9023	9018	9192	9374	9482	2547
25°	8408	8473	8791	8865	8920	3873
35°	7378	7436	7586	7524	7495	4597
45°	5700	5734	5641	5552	5526	4392
55°	3803	3707	3662	3401	3341	3413
65°	2189	1989	1855	1905	1929	2191
75°	1123	1054	958	1092	1138	1202
85°	294	287	258	268	268	339
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9266.4	9266.4	9266.4	9266.4	9266.4
2.5°	9316.6	9264.1	9254.5	9233.0	9280.8
5°	9285.6	9242.5	9247.3	9240.2	9292.7
7.5°	9249.7	9218.6	9237.8	9235.4	9304.7
10°	9187.6	9170.8	9218.6	9271.2	9383.6
12.5°	9118.3	9101.5	9206.7	9340.5	9462.4
15°	9022.7	9017.9	9192.4	9374.0	9481.6
17.5°	8903.1	8910.3	9175.6	9331.0	9426.6
20°	8771.7	8783.6	9106.3	9233.0	9319.0
22.5°	8602.0	8642.6	8972.5	9077.6	9144.5
25°	8408.4	8472.9	8790.8	8864.9	8919.9
27.5°	8200.5	8265.0	8566.1	8604.4	8635.5
30°	7942.3	8033.1	8288.9	8293.7	8315.2
32.5°	7679.4	7760.7	7956.7	7935.2	7939.9
35°	7378.3	7435.6	7586.2	7524.1	7495.4
37.5°	7031.7	7062.8	7158.4	7065.2	7060.4
40°	6627.8	6668.4	6668.4	6539.3	6563.2
42.5°	6197.5	6211.9	6152.1	6030.2	6049.4
45°	5700.4	5733.9	5640.7	5552.2	5525.9
47.5°	5208.0	5241.5	5143.5	5040.7	4995.3
50°	4744.4	4727.6	4667.9	4493.4	4428.9
52.5°	4264.0	4211.4	4187.5	3931.7	3857.6
55°	3802.7	3707.1	3661.6	3401.1	3341.4
57.5°	3374.8	3202.7	3116.7	2913.5	2889.6
60°	2939.8	2746.2	2641.1	2509.6	2514.4
62.5°	2545.5	2342.3	2215.6	2177.4	2194.1
65°	2189.3	1988.6	1854.7	1904.9	1928.8
67.5°	1866.7	1701.8	1551.2	1668.3	1692.2
70°	1584.6	1453.2	1302.6	1474.7	1486.6
72.5°	1350.4	1242.9	1116.2	1278.7	1305.0
75°	1123.4	1054.0	958.4	1092.3	1137.7
77.5°	925.0	870.0	815.0	896.3	946.5
80°	733.8	678.8	650.1	693.1	726.6
82.5°	518.7	482.8	454.1	485.2	501.9
85°	294.0	286.8	258.1	267.7	267.7
87.5°	66.9	76.5	86.0	78.9	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)