

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-L840-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-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

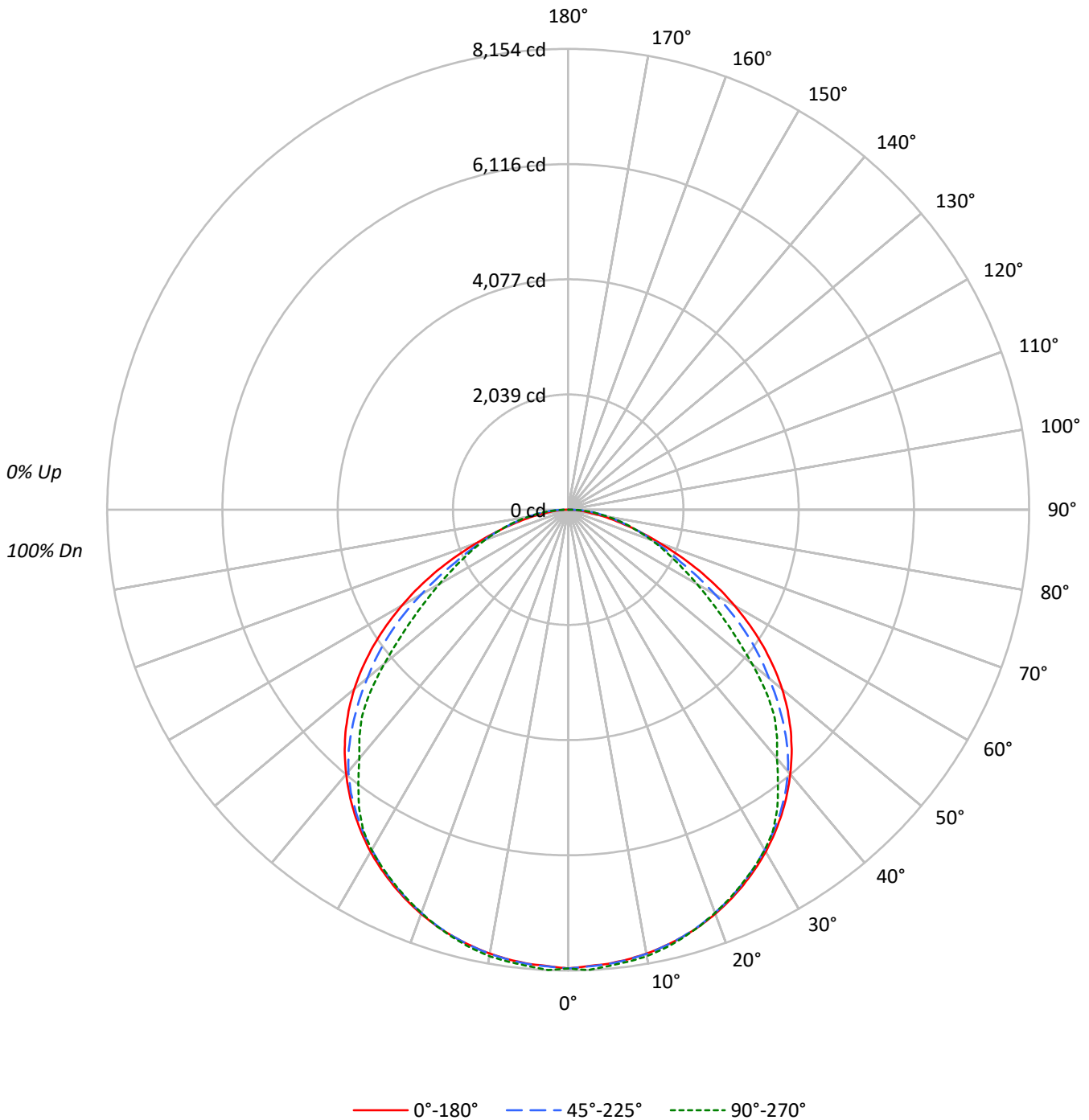
Lumens per Lamp: N/A
Luminaire Lumens: 21807.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10921	10921	10921
5°	10892	10899	10948
10°	10898	10903	10960
15°	10899	10898	10923
20°	10896	10871	10874
25°	10880	10839	10826
30°	10862	10797	10803
35°	10811	10744	10592
40°	10734	10625	10089
45°	10598	10259	9810
50°	10343	9713	8885
55°	9872	9083	7856
60°	9161	8105	7085
65°	8143	7017	6514
70°	6758	6271	6141
75°	5466	5739	5810
80°	4341	5489	5466
85°	3399	5897	5626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.7	3.5
10°-20°	2214.1	10.2
20°-30°	3376.1	15.5
30°-40°	4084.6	18.7
40°-50°	4137.3	19.0
50°-60°	3419.6	15.7
60°-70°	2258.6	10.4
70°-80°	1177.7	5.4
80°-90°	369.2	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°	6359.9	29.2
0°-40°	10444.5	47.9
0°-60°	18001.5	82.5
0°-90°	21807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8117	8117	8117	8117	8117	
5°	8064	8113	8070	8105	8106	767
15°	7824	7864	7823	7848	7842	2209
25°	7328	7358	7301	7320	7292	3379
35°	6582	6591	6541	6532	6448	4117
45°	5570	5555	5391	5224	5156	4289
55°	4208	4146	3872	3496	3349	3751
65°	2558	2484	2204	2061	2046	2526
75°	1051	1070	1104	1119	1118	1145
85°	220	284	382	379	364	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8116.7	8116.7	8116.7	8116.7	8116.7
2.5°	8082.6	8130.3	8090.4	8125.5	8153.7
5°	8064.1	8112.8	8069.9	8105.0	8106.0
7.5°	8028.0	8076.7	8032.9	8068.0	8067.0
10°	7976.4	8022.2	7980.3	8022.2	8022.2
12.5°	7906.2	7951.0	7910.1	7949.1	7943.2
15°	7824.4	7864.3	7823.4	7847.8	7841.9
17.5°	7727.9	7764.0	7718.2	7738.6	7726.9
20°	7610.0	7643.1	7592.5	7618.8	7594.4
22.5°	7477.5	7508.7	7457.0	7476.5	7449.2
25°	7328.4	7357.6	7301.1	7319.6	7292.4
27.5°	7167.6	7193.9	7130.6	7153.0	7131.6
30°	6991.3	7003.9	6949.4	6978.6	6953.3
32.5°	6794.4	6802.2	6754.5	6780.8	6737.9
35°	6582.0	6590.8	6541.1	6532.3	6448.5
37.5°	6355.0	6358.9	6312.1	6233.2	6094.8
40°	6111.4	6109.4	6049.0	5866.8	5744.0
42.5°	5851.2	5850.3	5744.0	5536.5	5466.3
45°	5569.6	5555.0	5391.3	5223.7	5155.5
47.5°	5267.6	5252.0	5023.0	4889.5	4734.6
50°	4941.1	4913.9	4640.1	4457.8	4244.5
52.5°	4589.4	4547.5	4268.8	3974.5	3772.8
55°	4208.4	4146.0	3872.2	3496.1	3349.0
57.5°	3811.8	3719.3	3453.2	3086.9	2967.0
60°	3404.5	3301.2	3011.8	2710.8	2632.8
62.5°	2985.5	2883.2	2588.0	2361.0	2318.1
65°	2557.8	2483.7	2204.1	2060.8	2046.2
67.5°	2119.3	2093.0	1879.6	1806.5	1800.7
70°	1717.9	1713.0	1594.1	1557.1	1561.0
72.5°	1372.9	1367.1	1349.5	1331.0	1332.0
75°	1051.4	1069.9	1104.0	1118.6	1117.6
77.5°	784.4	822.4	894.5	923.7	918.9
80°	560.3	616.8	708.4	735.7	705.5
82.5°	373.2	432.6	540.8	544.7	520.3
85°	220.2	283.5	382.0	379.0	364.4
87.5°	109.1	170.5	229.0	219.2	209.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)