

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-A-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 (P23761)
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-A-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

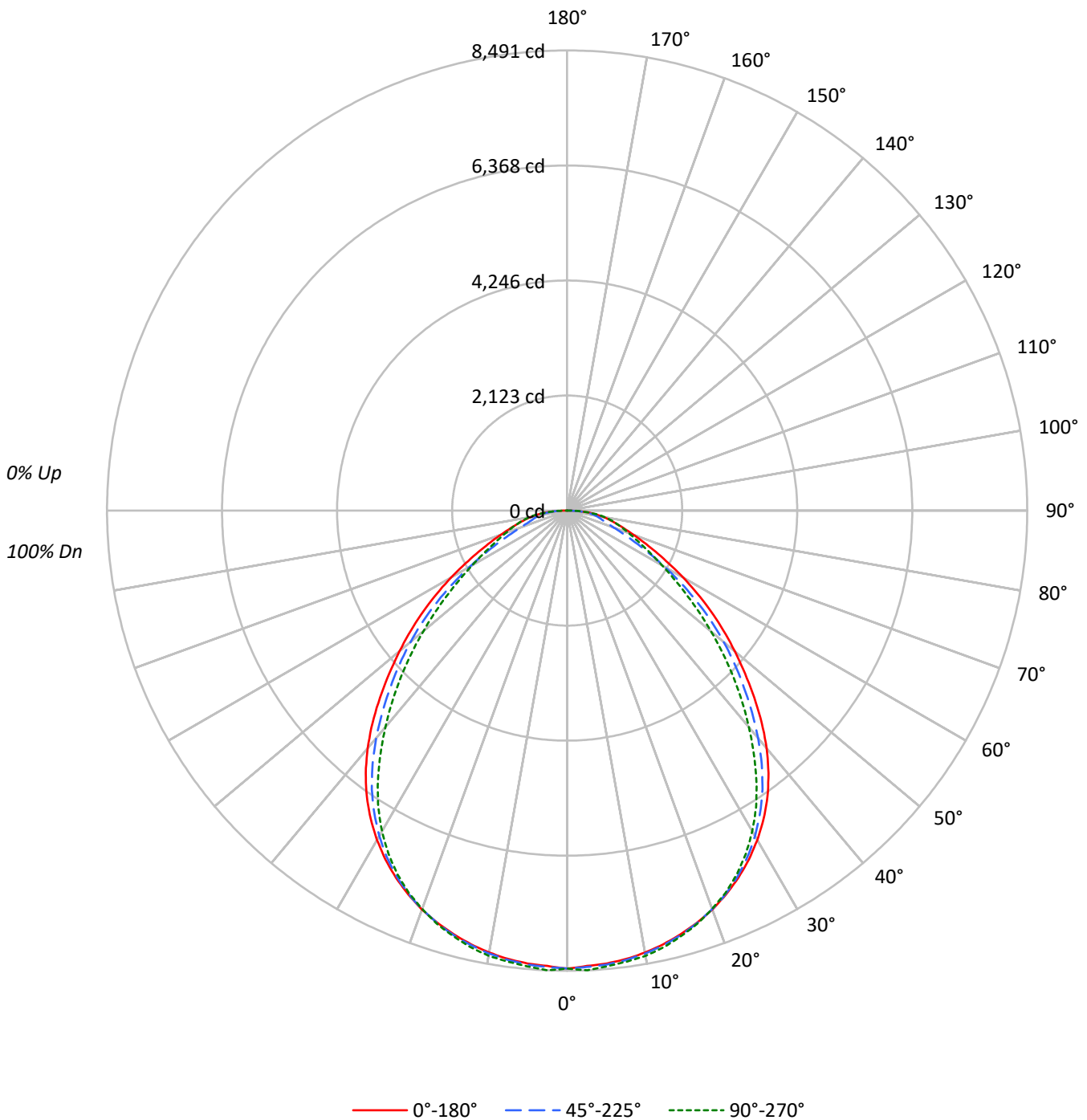
Lumens per Lamp: N/A
Luminaire Lumens: 19411.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11369	11369	11369
5°	11329	11355	11401
10°	11313	11339	11396
15°	11275	11298	11324
20°	11216	11208	11200
25°	11094	11056	10994
30°	10903	10771	10614
35°	10586	10320	10002
40°	10059	9628	9166
45°	9293	8775	8243
50°	8448	7901	7251
55°	7596	6841	6268
60°	6647	5591	5439
65°	5731	4396	4909
70°	5110	3588	4731
75°	4894	3502	4944
80°	5294	4142	5508
85°	5944	4988	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.8	4.1
10°-20°	2292.0	11.8
20°-30°	3428.6	17.7
30°-40°	3911.7	20.2
40°-50°	3560.7	18.3
50°-60°	2614.6	13.5
60°-70°	1543.8	8.0
70°-80°	884.7	4.6
80°-90°	374.1	1.9
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°	6521.4	33.6
0°-40°	10433.0	53.7
0°-60°	16608.4	85.6
0°-90°	19411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8450	8450	8450	8450	8450	
5°	8388	8440	8407	8440	8441	797
15°	8094	8139	8111	8139	8130	2284
25°	7473	7500	7447	7445	7406	3440
35°	6445	6414	6283	6175	6089	4015
45°	4884	4855	4611	4405	4332	3764
55°	3238	3089	2916	2704	2672	2896
65°	1800	1571	1381	1477	1542	1811
75°	942	807	674	879	951	1015
85°	385	356	323	381	389	403
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8449.9	8449.9	8449.9	8449.9	8449.9
2.5°	8410.9	8459.5	8429.0	8462.3	8490.9
5°	8388.0	8440.4	8407.1	8440.4	8441.4
7.5°	8346.1	8394.7	8362.3	8398.5	8394.7
10°	8280.3	8328.9	8299.4	8338.4	8341.3
12.5°	8196.4	8243.1	8212.6	8257.4	8249.8
15°	8094.5	8139.3	8110.7	8139.3	8129.7
17.5°	7974.4	8015.4	7978.2	8009.7	7993.5
20°	7833.4	7867.7	7827.6	7857.2	7821.9
22.5°	7664.7	7695.2	7653.3	7669.5	7633.2
25°	7473.1	7499.8	7447.4	7444.6	7405.5
27.5°	7259.7	7274.0	7207.3	7184.4	7139.6
30°	7017.6	7021.4	6932.8	6889.9	6831.8
32.5°	6746.0	6736.5	6623.1	6559.3	6487.8
35°	6444.9	6413.5	6282.9	6175.2	6089.4
37.5°	6104.7	6055.1	5898.8	5739.7	5657.7
40°	5727.3	5669.2	5481.5	5284.2	5218.4
42.5°	5316.6	5267.0	5045.9	4840.1	4775.3
45°	4883.9	4855.4	4611.4	4404.6	4332.2
47.5°	4451.3	4430.3	4192.1	3981.5	3893.8
50°	4035.8	3990.1	3774.7	3544.1	3464.0
52.5°	3632.7	3539.3	3349.7	3113.3	3054.3
55°	3238.2	3088.6	2916.1	2704.5	2672.1
57.5°	2847.5	2654.0	2486.3	2328.1	2327.1
60°	2470.1	2249.0	2077.5	1994.6	2021.2
62.5°	2116.5	1889.7	1703.9	1709.6	1758.2
65°	1800.1	1571.4	1380.8	1477.1	1541.9
67.5°	1528.6	1310.3	1116.9	1296.0	1358.0
70°	1298.9	1101.6	912.0	1135.9	1202.6
72.5°	1105.4	939.6	769.0	1002.5	1070.2
75°	941.5	807.2	673.7	878.6	951.1
77.5°	808.1	689.0	604.2	760.5	835.7
80°	683.3	578.4	534.6	646.1	710.9
82.5°	541.3	468.9	443.1	525.1	558.4
85°	385.0	355.5	323.1	381.2	388.8
87.5°	211.6	219.2	181.1	219.2	220.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)