

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: P393635

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L82765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6106.1 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

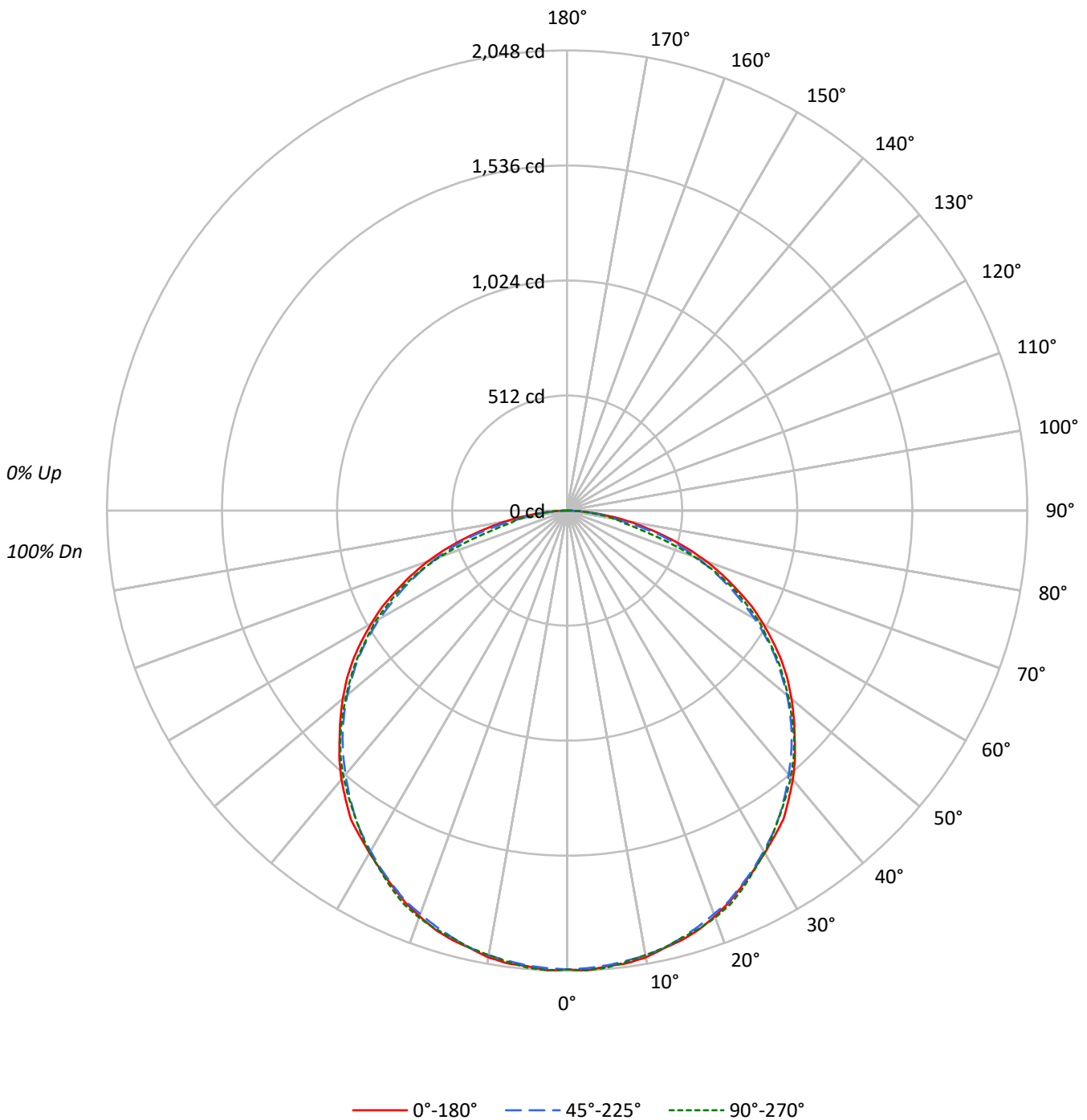
Input Watts (W): 48.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2748	2748	2748
5°	2749	2744	2758
10°	2758	2746	2744
15°	2756	2742	2743
20°	2751	2736	2759
25°	2736	2729	2751
30°	2733	2719	2730
35°	2756	2712	2712
40°	2744	2695	2719
45°	2724	2689	2717
50°	2728	2673	2688
55°	2733	2651	2670
60°	2710	2594	2651
65°	2657	2520	2584
70°	2591	2432	2371
75°	2408	2260	1826
80°	2175	1727	1720
85°	1741	1585	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.2
10°-20°	556.3	9.1
20°-30°	849.6	13.9
30°-40°	1035.2	17.0
40°-50°	1096.0	17.9
50°-60°	1015.4	16.6
60°-70°	797.2	13.1
70°-80°	444.4	7.3
80°-90°	118.5	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°	1599.3	26.2
0°-40°	2634.6	43.1
0°-60°	4745.9	77.7
0°-90°	6106.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6106.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2035	2039	2032	2029	2042	194
15°	1978	1971	1968	1965	1969	558
25°	1843	1844	1838	1841	1853	851
35°	1678	1657	1651	1644	1651	1046
45°	1432	1429	1413	1415	1428	1107
55°	1165	1146	1130	1124	1138	1039
65°	835	817	792	802	812	828
75°	463	448	435	373	351	491
85°	113	104	103	94	94	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.6	2042.6	2042.6	2042.6	2042.6
2.5°	2048.1	2039.0	2038.1	2039.9	2047.2
5°	2035.3	2039.0	2031.6	2028.9	2041.7
7.5°	2032.6	2030.7	2020.6	2014.2	2025.2
10°	2018.8	2016.0	2009.6	1999.5	2008.7
12.5°	1994.9	1996.8	1994.0	1983.0	1993.1
15°	1978.4	1971.1	1968.3	1964.7	1969.3
17.5°	1954.6	1939.9	1940.8	1946.3	1951.8
20°	1921.6	1908.7	1910.6	1920.7	1927.1
22.5°	1885.8	1880.3	1881.2	1884.9	1896.8
25°	1842.7	1844.5	1838.1	1840.9	1852.8
27.5°	1800.5	1806.9	1795.9	1793.2	1803.2
30°	1759.2	1762.0	1750.1	1743.6	1757.4
32.5°	1717.9	1711.5	1703.3	1694.1	1705.1
35°	1677.6	1657.4	1651.0	1643.7	1651.0
37.5°	1619.8	1603.3	1593.2	1594.1	1600.5
40°	1562.0	1543.7	1534.5	1541.8	1548.3
42.5°	1500.6	1484.1	1475.8	1481.3	1492.3
45°	1431.8	1429.0	1413.4	1415.3	1428.1
47.5°	1368.5	1364.8	1346.5	1346.5	1355.6
50°	1303.4	1293.3	1276.8	1271.3	1284.1
52.5°	1237.3	1219.9	1202.5	1200.6	1211.6
55°	1164.9	1145.6	1130.0	1123.6	1138.3
57.5°	1086.0	1067.6	1047.5	1047.5	1056.6
60°	1007.1	985.1	964.0	964.9	985.1
62.5°	927.3	905.3	875.9	881.4	898.0
65°	834.7	817.2	791.6	801.6	811.7
67.5°	749.4	730.1	703.5	712.7	712.7
70°	658.6	633.8	618.2	608.1	602.6
72.5°	563.2	540.2	529.2	492.5	477.0
75°	463.2	447.6	434.8	373.3	351.3
77.5°	367.8	359.5	324.7	271.5	258.7
80°	280.7	274.2	222.9	221.0	222.0
82.5°	191.7	184.4	170.6	159.6	154.1
85°	112.8	103.6	102.7	94.5	93.6
87.5°	37.6	41.3	43.1	42.2	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)