

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: P393724

Luminaire Tested: **24EN-LD2-74-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-74-UNV-L93050-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6198.4 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

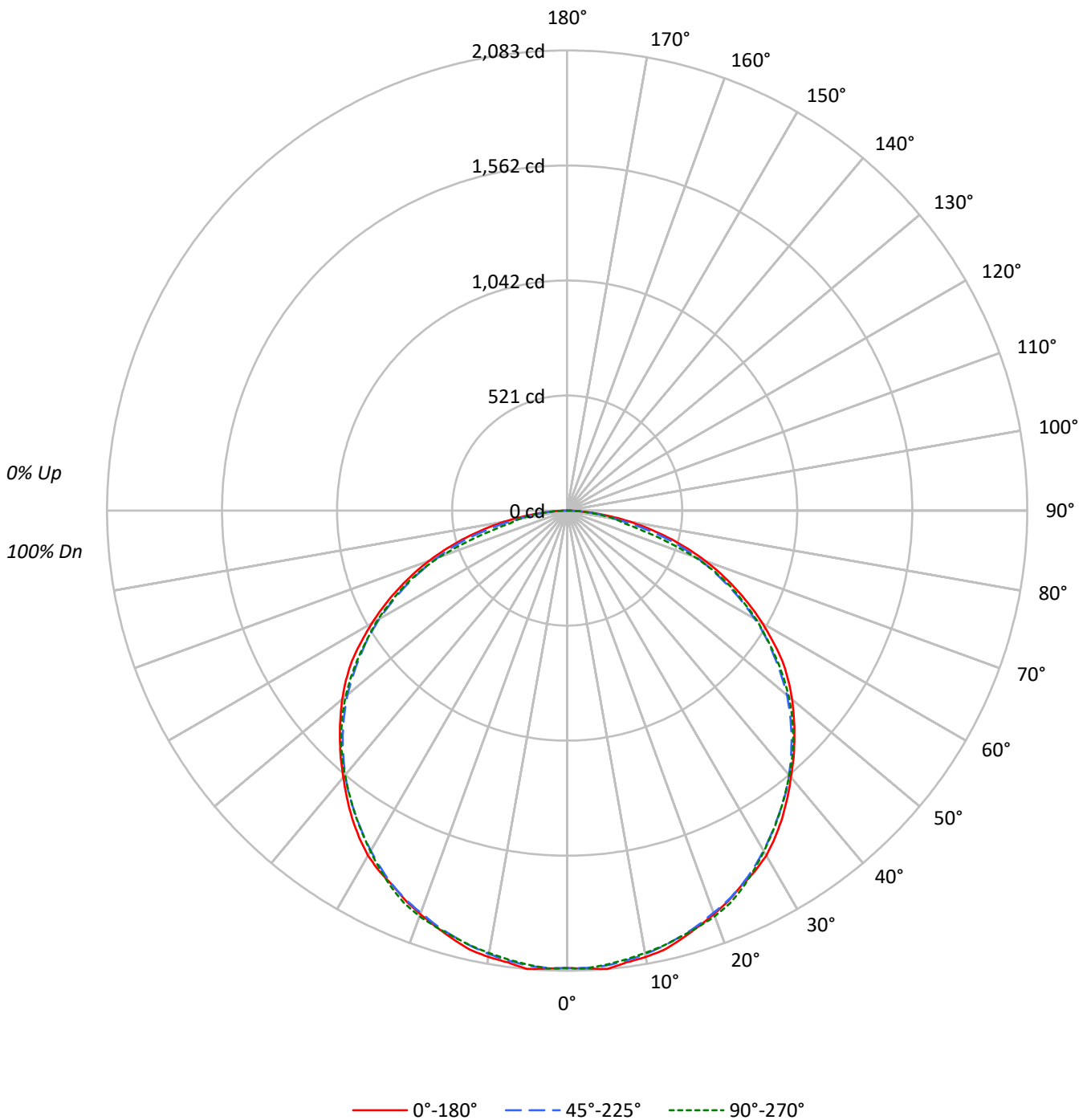
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	41	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°	2787	2787	2787
5°	2813	2792	2786
10°	2803	2785	2778
15°	2795	2779	2780
20°	2784	2774	2798
25°	2778	2776	2794
30°	2801	2762	2767
35°	2789	2749	2751
40°	2768	2746	2747
45°	2768	2735	2754
50°	2781	2718	2741
55°	2793	2681	2700
60°	2747	2639	2666
65°	2696	2562	2605
70°	2613	2471	2415
75°	2470	2269	1862
80°	2202	1753	1720
85°	1726	1623	1493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.2
10°-20°	564.1	9.1
20°-30°	862.2	13.9
30°-40°	1051.2	17.0
40°-50°	1112.6	17.9
50°-60°	1031.1	16.6
60°-70°	808.9	13.1
70°-80°	451.3	7.3
80°-90°	120.7	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°	1622.6	26.2
0°-40°	2673.8	43.1
0°-60°	4817.5	77.7
0°-90°	6198.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6198.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2083	2064	2067	2063	2063	197
15°	2006	1999	1995	1994	1996	566
25°	1871	1873	1870	1863	1882	866
35°	1698	1678	1673	1679	1675	1062
45°	1455	1453	1437	1429	1447	1124
55°	1191	1159	1143	1145	1151	1059
65°	847	832	805	813	818	837
75°	475	456	436	382	358	500
85°	112	106	105	98	97	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2071.2	2071.2	2071.2	2071.2	2071.2
2.5°	2074.6	2069.5	2072.0	2064.5	2074.6
5°	2083.0	2063.6	2067.0	2062.8	2062.8
7.5°	2062.8	2054.4	2054.4	2055.2	2049.3
10°	2051.9	2040.9	2038.4	2040.9	2033.4
12.5°	2035.9	2019.9	2018.2	2019.9	2016.5
15°	2006.5	1998.9	1994.7	1993.8	1995.5
17.5°	1974.5	1972.8	1968.6	1965.2	1976.2
20°	1944.2	1945.9	1937.5	1935.0	1954.3
22.5°	1910.6	1910.6	1907.2	1898.8	1924.9
25°	1871.1	1872.7	1870.2	1862.7	1882.0
27.5°	1840.8	1828.2	1825.7	1823.1	1833.2
30°	1803.0	1780.2	1777.7	1778.6	1781.1
32.5°	1753.3	1730.6	1726.4	1731.5	1728.1
35°	1697.8	1677.7	1673.4	1679.3	1675.1
37.5°	1638.1	1626.4	1621.3	1621.3	1619.6
40°	1575.9	1570.9	1563.3	1560.8	1564.1
42.5°	1517.0	1516.2	1500.2	1496.9	1509.5
45°	1454.8	1453.1	1437.1	1428.7	1447.2
47.5°	1392.6	1385.8	1368.2	1359.8	1380.8
50°	1328.7	1312.7	1298.4	1295.9	1309.3
52.5°	1262.2	1237.0	1220.2	1218.5	1232.0
55°	1190.8	1158.8	1142.8	1145.3	1151.2
57.5°	1105.8	1081.4	1065.5	1064.6	1068.0
60°	1020.9	999.9	980.5	983.0	990.6
62.5°	934.3	917.5	893.9	901.5	901.5
65°	846.8	831.7	804.8	813.2	818.2
67.5°	757.7	740.9	714.8	719.0	724.0
70°	664.3	645.8	628.2	612.2	613.9
72.5°	570.1	550.0	538.2	497.8	486.1
75°	475.1	455.8	436.4	381.8	358.2
77.5°	378.4	367.5	330.5	271.6	263.2
80°	284.2	279.2	226.2	222.8	222.0
82.5°	196.8	188.4	172.4	162.3	159.8
85°	111.8	106.0	105.1	98.4	96.7
87.5°	39.5	42.0	42.9	42.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)