

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: P393727

Luminaire Tested: **24EN-LD2-74-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393727
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 (5000K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502.2 lumens
Efficiency: N/A
Efficacy: 120.0 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

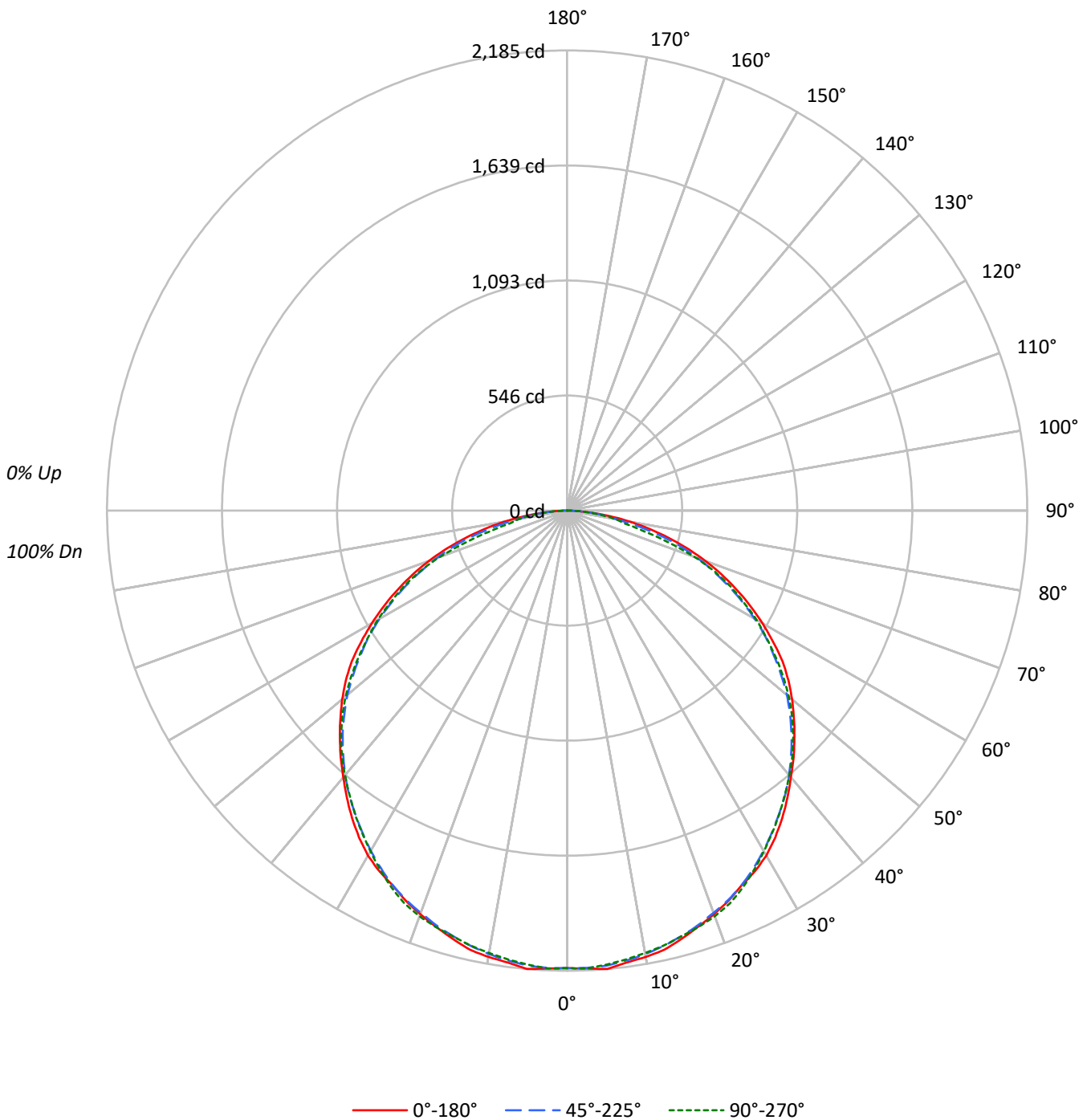
Input Watts (W): 54.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2923	2923	2923
5°	2951	2929	2923
10°	2941	2921	2914
15°	2932	2915	2916
20°	2920	2910	2935
25°	2914	2913	2931
30°	2938	2897	2903
35°	2926	2883	2886
40°	2904	2880	2882
45°	2904	2869	2889
50°	2918	2851	2875
55°	2930	2812	2833
60°	2882	2768	2796
65°	2828	2688	2733
70°	2742	2592	2533
75°	2591	2380	1954
80°	2311	1839	1805
85°	1811	1703	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	3.2
10°-20°	591.7	9.1
20°-30°	904.5	13.9
30°-40°	1102.7	17.0
40°-50°	1167.1	17.9
50°-60°	1081.6	16.6
60°-70°	848.6	13.1
70°-80°	473.4	7.3
80°-90°	126.6	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°	1702.2	26.2
0°-40°	2804.9	43.1
0°-60°	5053.7	77.7
0°-90°	6502.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6502.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2185	2165	2168	2164	2164	207
15°	2105	2097	2092	2092	2093	594
25°	1963	1964	1962	1954	1974	908
35°	1781	1760	1756	1762	1757	1114
45°	1526	1524	1508	1499	1518	1179
55°	1249	1216	1199	1202	1208	1111
65°	888	872	844	853	858	878
75°	498	478	458	400	376	525
85°	117	111	110	103	101	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2172.7	2172.7	2172.7	2172.7	2172.7
2.5°	2176.3	2171.0	2173.6	2165.7	2176.3
5°	2185.1	2164.8	2168.3	2163.9	2163.9
7.5°	2163.9	2155.1	2155.1	2156.0	2149.8
10°	2152.4	2141.0	2138.3	2141.0	2133.0
12.5°	2135.7	2118.9	2117.2	2118.9	2115.4
15°	2104.8	2096.9	2092.5	2091.6	2093.3
17.5°	2071.3	2069.5	2065.1	2061.6	2073.1
20°	2039.5	2041.3	2032.5	2029.8	2050.1
22.5°	2004.2	2004.2	2000.7	1991.9	2019.2
25°	1962.8	1964.5	1961.9	1954.0	1974.3
27.5°	1931.0	1917.8	1915.1	1912.5	1923.1
30°	1891.3	1867.5	1864.9	1865.7	1868.4
32.5°	1839.3	1815.5	1811.1	1816.3	1812.8
35°	1781.1	1759.9	1755.5	1761.7	1757.2
37.5°	1718.4	1706.1	1700.8	1700.8	1699.0
40°	1653.1	1647.9	1639.9	1637.3	1640.8
42.5°	1591.4	1590.5	1573.8	1570.2	1583.5
45°	1526.1	1524.4	1507.6	1498.8	1518.2
47.5°	1460.8	1453.8	1435.3	1426.4	1448.5
50°	1393.8	1377.0	1362.0	1359.4	1373.5
52.5°	1324.1	1297.6	1280.0	1278.2	1292.3
55°	1249.1	1215.6	1198.8	1201.5	1207.7
57.5°	1160.0	1134.4	1117.7	1116.8	1120.3
60°	1070.9	1048.9	1028.6	1031.2	1039.2
62.5°	980.1	962.4	937.7	945.7	945.7
65°	888.3	872.4	844.2	853.0	858.3
67.5°	794.8	777.2	749.8	754.2	759.5
70°	696.9	677.5	659.0	642.2	644.0
72.5°	598.1	576.9	564.6	522.2	509.9
75°	498.4	478.1	457.8	400.5	375.8
77.5°	397.0	385.5	346.7	284.9	276.1
80°	298.2	292.9	237.3	233.8	232.9
82.5°	206.4	197.6	180.8	170.3	167.6
85°	117.3	111.2	110.3	103.2	101.4
87.5°	41.5	44.1	45.0	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)