

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: P393726

Luminaire Tested: **24EN-LD2-74-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393726  
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 (4500K)  
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: 6472.3 lumens  
Efficiency: N/A  
Efficacy: 119.2 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

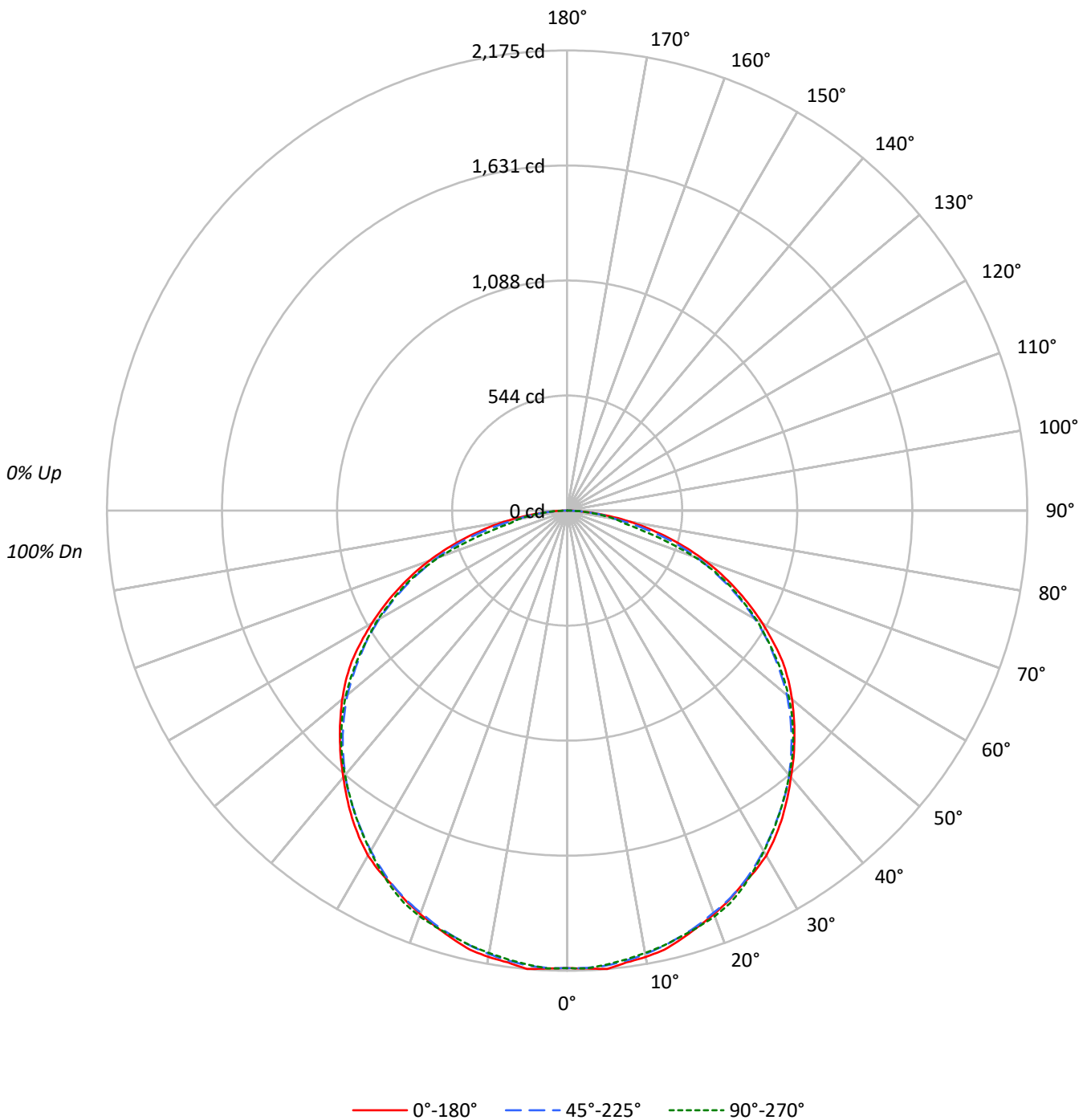
Input Watts (W): 54.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2910	2910	2910
5°	2938	2915	2909
10°	2927	2908	2901
15°	2918	2901	2902
20°	2907	2897	2922
25°	2900	2899	2917
30°	2925	2884	2889
35°	2912	2870	2873
40°	2890	2867	2869
45°	2891	2855	2876
50°	2904	2838	2862
55°	2917	2799	2820
60°	2869	2755	2784
65°	2815	2675	2720
70°	2729	2580	2522
75°	2579	2369	1945
80°	2300	1830	1796
85°	1803	1695	1559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	3.2
10°-20°	589.0	9.1
20°-30°	900.3	13.9
30°-40°	1097.6	17.0
40°-50°	1161.7	17.9
50°-60°	1076.7	16.6
60°-70°	844.7	13.1
70°-80°	471.2	7.3
80°-90°	126.0	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°	1694.3	26.2
0°-40°	2792.0	43.1
0°-60°	5030.4	77.7
0°-90°	6472.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6472.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2175	2155	2158	2154	2154	206
15°	2095	2087	2083	2082	2084	591
25°	1954	1956	1953	1945	1965	904
35°	1773	1752	1747	1754	1749	1109
45°	1519	1517	1501	1492	1511	1173
55°	1243	1210	1193	1196	1202	1106
65°	884	868	840	849	854	874
75°	496	476	456	399	374	523
85°	117	111	110	103	101	139
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2162.7	2162.7	2162.7	2162.7	2162.7
2.5°	2166.2	2161.0	2163.6	2155.7	2166.2
5°	2175.0	2154.8	2158.3	2153.9	2153.9
7.5°	2153.9	2145.2	2145.2	2146.0	2139.9
10°	2142.5	2131.1	2128.5	2131.1	2123.2
12.5°	2125.8	2109.2	2107.4	2109.2	2105.6
15°	2095.1	2087.2	2082.8	2081.9	2083.7
17.5°	2061.7	2060.0	2055.6	2052.1	2063.5
20°	2030.1	2031.9	2023.1	2020.5	2040.7
22.5°	1995.0	1995.0	1991.5	1982.7	2009.9
25°	1953.7	1955.5	1952.9	1945.0	1965.1
27.5°	1922.1	1909.0	1906.3	1903.7	1914.2
30°	1882.6	1858.9	1856.3	1857.1	1859.8
32.5°	1830.8	1807.1	1802.7	1808.0	1804.5
35°	1772.8	1751.8	1747.4	1753.5	1749.1
37.5°	1710.5	1698.2	1692.9	1692.9	1691.2
40°	1645.5	1640.3	1632.4	1629.7	1633.2
42.5°	1584.1	1583.2	1566.5	1563.0	1576.2
45°	1519.1	1517.3	1500.6	1491.9	1511.2
47.5°	1454.1	1447.1	1428.6	1419.9	1441.8
50°	1387.4	1370.7	1355.8	1353.1	1367.2
52.5°	1318.0	1291.7	1274.1	1272.3	1286.4
55°	1243.4	1210.0	1193.3	1195.9	1202.1
57.5°	1154.7	1129.2	1112.5	1111.7	1115.2
60°	1066.0	1044.0	1023.8	1026.5	1034.4
62.5°	975.6	958.0	933.4	941.3	941.3
65°	884.2	868.4	840.3	849.1	854.4
67.5°	791.2	773.6	746.4	750.8	756.0
70°	693.7	674.4	655.9	639.2	641.0
72.5°	595.3	574.3	562.0	519.8	507.5
75°	496.1	475.9	455.7	398.6	374.1
77.5°	395.1	383.7	345.1	283.6	274.8
80°	296.8	291.5	236.2	232.7	231.8
82.5°	205.5	196.7	180.0	169.5	166.8
85°	116.8	110.6	109.8	102.7	101.0
87.5°	41.3	43.9	44.8	44.8	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)