

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: P393722

Luminaire Tested: **24EN-LD2-74-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393722  
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 (2700K)  
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: 6364.3 lumens  
Efficiency: N/A  
Efficacy: 115.9 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

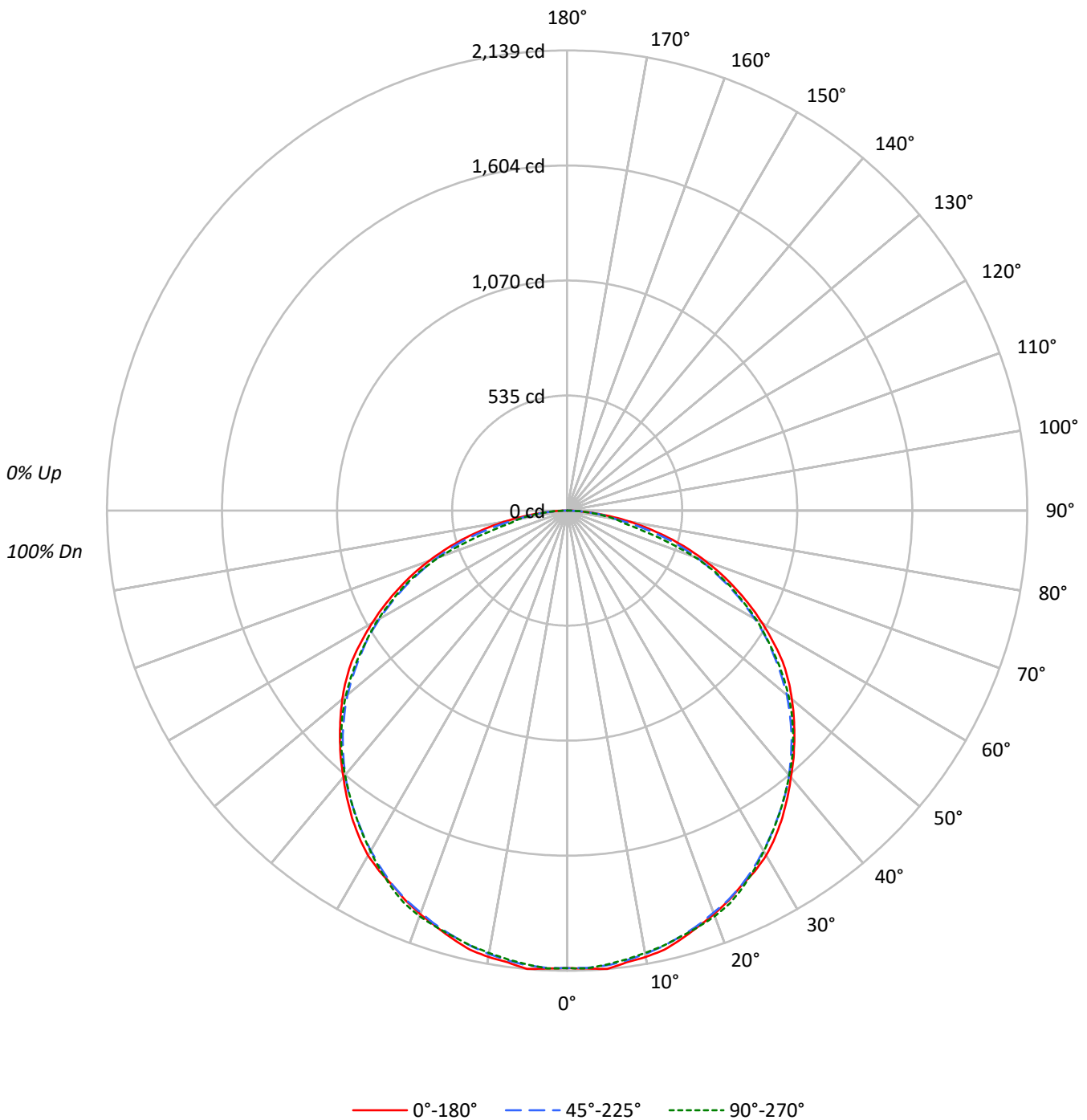
Input Watts (W): 54.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2861	2861	2861
5°	2889	2866	2861
10°	2878	2860	2852
15°	2870	2853	2854
20°	2858	2848	2873
25°	2852	2851	2869
30°	2876	2836	2841
35°	2863	2822	2825
40°	2842	2819	2821
45°	2842	2808	2828
50°	2856	2790	2814
55°	2868	2753	2773
60°	2821	2709	2737
65°	2768	2631	2675
70°	2683	2537	2480
75°	2536	2329	1912
80°	2261	1800	1766
85°	1772	1666	1533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.6	3.2
10°-20°	579.2	9.1
20°-30°	885.3	13.9
30°-40°	1079.3	17.0
40°-50°	1142.3	17.9
50°-60°	1058.7	16.6
60°-70°	830.6	13.1
70°-80°	463.4	7.3
80°-90°	123.9	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°	1666.1	26.2
0°-40°	2745.4	43.1
0°-60°	4946.4	77.7
0°-90°	6364.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6364.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2139	2119	2122	2118	2118	203
15°	2060	2052	2048	2047	2049	582
25°	1921	1923	1920	1912	1932	889
35°	1743	1722	1718	1724	1720	1090
45°	1494	1492	1476	1467	1486	1154
55°	1223	1190	1173	1176	1182	1087
65°	870	854	826	835	840	859
75°	488	468	448	392	368	514
85°	115	109	108	101	99	137
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2130.1	2124.9	2127.5	2119.7	2130.1
5°	2138.7	2118.9	2122.3	2118.0	2118.0
7.5°	2118.0	2109.4	2109.4	2110.2	2104.2
10°	2106.8	2095.5	2093.0	2095.5	2087.8
12.5°	2090.4	2074.0	2072.2	2074.0	2070.5
15°	2060.1	2052.4	2048.1	2047.2	2048.9
17.5°	2027.3	2025.6	2021.3	2017.8	2029.1
20°	1996.3	1998.0	1989.3	1986.8	2006.6
22.5°	1961.7	1961.7	1958.3	1949.6	1976.4
25°	1921.1	1922.9	1920.3	1912.5	1932.4
27.5°	1890.1	1877.1	1874.5	1871.9	1882.3
30°	1851.2	1827.9	1825.3	1826.2	1828.7
32.5°	1800.3	1776.9	1772.6	1777.8	1774.4
35°	1743.3	1722.5	1718.2	1724.3	1720.0
37.5°	1682.0	1669.9	1664.7	1664.7	1663.0
40°	1618.1	1612.9	1605.1	1602.5	1606.0
42.5°	1557.6	1556.8	1540.4	1536.9	1549.9
45°	1493.7	1492.0	1475.6	1467.0	1486.0
47.5°	1429.8	1422.9	1404.8	1396.2	1417.8
50°	1364.2	1347.8	1333.1	1330.5	1344.4
52.5°	1296.0	1270.1	1252.8	1251.1	1264.9
55°	1222.6	1189.8	1173.4	1176.0	1182.0
57.5°	1135.4	1110.4	1094.0	1093.1	1096.6
60°	1048.2	1026.6	1006.8	1009.4	1017.1
62.5°	959.3	942.0	917.8	925.6	925.6
65°	869.5	853.9	826.3	834.9	840.1
67.5°	778.0	760.7	733.9	738.2	743.4
70°	682.1	663.1	645.0	628.6	630.3
72.5°	585.4	564.7	552.6	511.2	499.1
75°	487.8	468.0	448.1	392.0	367.8
77.5°	388.5	377.3	339.3	278.9	270.3
80°	291.8	286.7	232.3	228.8	227.9
82.5°	202.0	193.4	177.0	166.6	164.1
85°	114.8	108.8	107.9	101.0	99.3
87.5°	40.6	43.2	44.0	44.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)