

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: P393718

Luminaire Tested: **24EN-LD2-74-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393718
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-L92765-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: 6055.1 lumens
Efficiency: N/A
Efficacy: 110.1 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

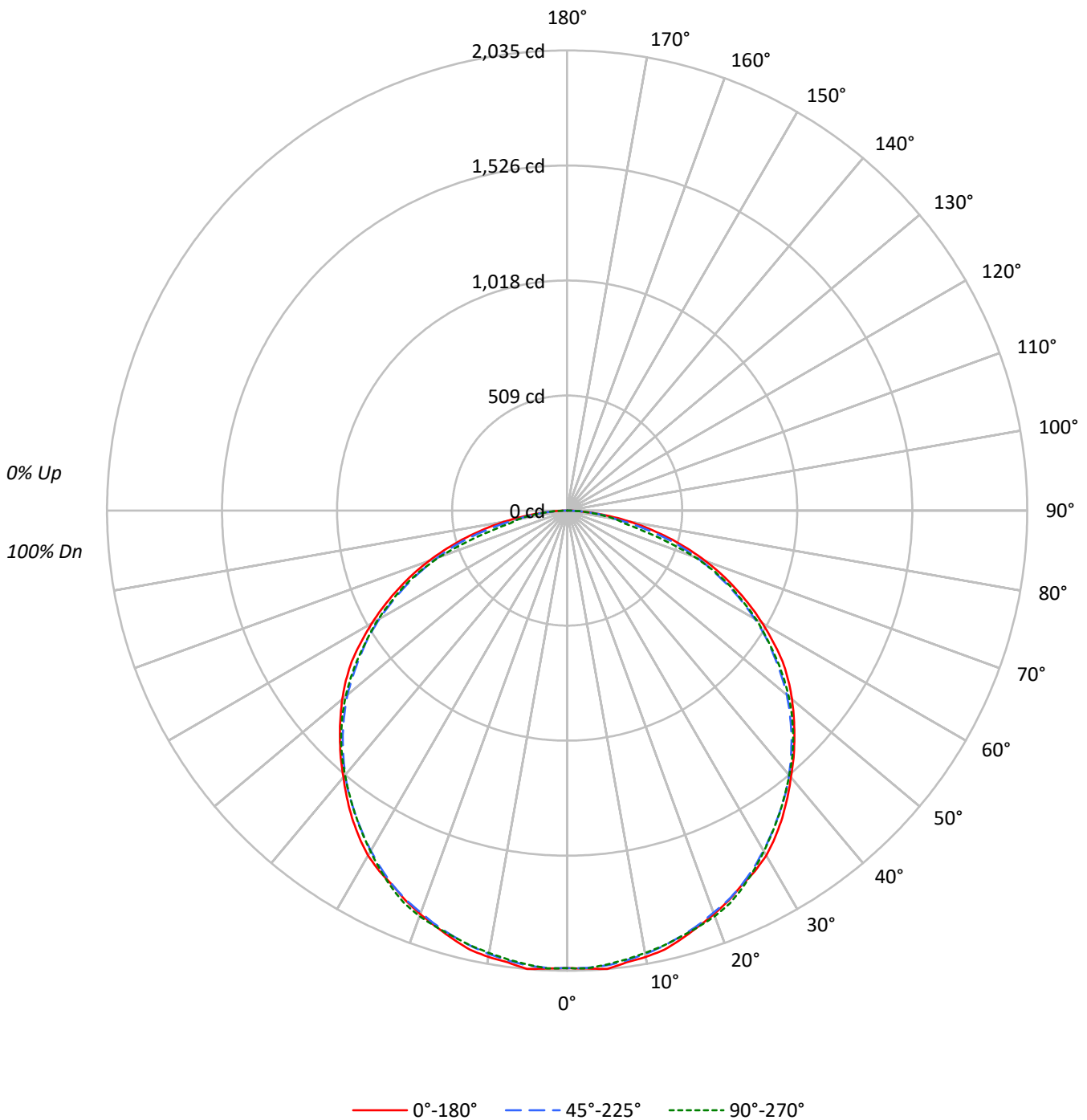
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2722	2722	2722
5°	2748	2727	2722
10°	2739	2721	2714
15°	2730	2714	2715
20°	2719	2710	2734
25°	2714	2712	2729
30°	2736	2698	2703
35°	2724	2685	2688
40°	2704	2682	2684
45°	2704	2671	2690
50°	2717	2655	2677
55°	2729	2619	2638
60°	2684	2578	2604
65°	2634	2503	2545
70°	2553	2414	2359
75°	2413	2217	1820
80°	2152	1712	1681
85°	1687	1585	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	3.2
10°-20°	551.0	9.1
20°-30°	842.3	13.9
30°-40°	1026.9	17.0
40°-50°	1086.9	17.9
50°-60°	1007.3	16.6
60°-70°	790.2	13.1
70°-80°	440.9	7.3
80°-90°	117.9	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°	1585.1	26.2
0°-40°	2612.0	43.1
0°-60°	4706.2	77.7
0°-90°	6055.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6055.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2035	2016	2019	2015	2015	193
15°	1960	1953	1949	1948	1949	553
25°	1828	1830	1827	1820	1838	845
35°	1659	1639	1635	1640	1636	1037
45°	1421	1420	1404	1396	1414	1098
55°	1163	1132	1116	1119	1125	1035
65°	827	812	786	794	799	818
75°	464	445	426	373	350	489
85°	109	104	103	96	94	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.3	2023.3	2023.3	2023.3	2023.3
2.5°	2026.6	2021.7	2024.2	2016.8	2026.6
5°	2034.8	2015.9	2019.2	2015.1	2015.1
7.5°	2015.1	2006.9	2006.9	2007.7	2002.0
10°	2004.4	1993.8	1991.3	1993.8	1986.4
12.5°	1988.8	1973.2	1971.6	1973.2	1969.9
15°	1960.1	1952.7	1948.6	1947.8	1949.4
17.5°	1928.9	1927.2	1923.1	1919.8	1930.5
20°	1899.3	1900.9	1892.7	1890.3	1909.1
22.5°	1866.4	1866.4	1863.1	1854.9	1880.4
25°	1827.8	1829.5	1827.0	1819.6	1838.5
27.5°	1798.2	1785.9	1783.5	1781.0	1790.9
30°	1761.3	1739.1	1736.6	1737.5	1739.9
32.5°	1712.8	1690.6	1686.5	1691.5	1688.2
35°	1658.6	1638.9	1634.8	1640.5	1636.4
37.5°	1600.3	1588.8	1583.8	1583.8	1582.2
40°	1539.5	1534.5	1527.2	1524.7	1528.0
42.5°	1482.0	1481.1	1465.5	1462.3	1474.6
45°	1421.2	1419.5	1403.9	1395.7	1413.8
47.5°	1360.4	1353.8	1336.6	1328.4	1348.9
50°	1298.0	1282.3	1268.4	1265.9	1279.1
52.5°	1233.1	1208.4	1192.0	1190.3	1203.5
55°	1163.2	1132.0	1116.4	1118.9	1124.6
57.5°	1080.3	1056.4	1040.8	1040.0	1043.3
60°	997.3	976.8	957.9	960.3	967.7
62.5°	912.7	896.2	873.2	880.6	880.6
65°	827.2	812.5	786.2	794.4	799.3
67.5°	740.2	723.7	698.3	702.4	707.3
70°	649.0	630.9	613.7	598.0	599.7
72.5°	557.0	537.3	525.8	486.3	474.8
75°	464.1	445.2	426.4	373.0	350.0
77.5°	369.7	359.0	322.8	265.3	257.1
80°	277.7	272.7	221.0	217.7	216.9
82.5°	192.2	184.0	168.4	158.5	156.1
85°	109.3	103.5	102.7	96.1	94.5
87.5°	38.6	41.1	41.9	41.9	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)