

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: P393719

Luminaire Tested: **24EN-LD2-74-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393719
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 (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: 6212.9 lumens
Efficiency: N/A
Efficacy: 113.0 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

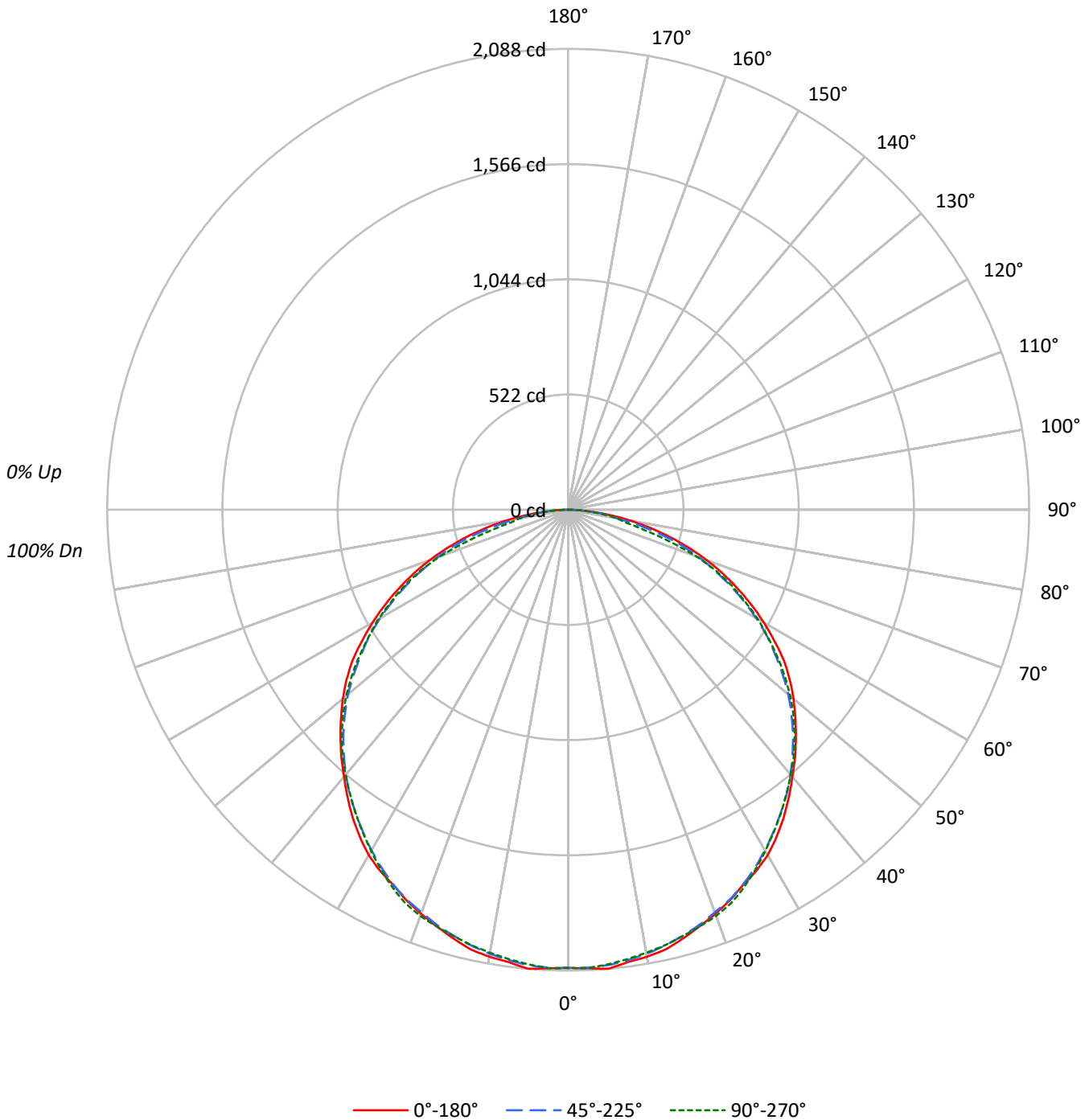
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2793	2793	2793
5°	2820	2798	2793
10°	2810	2792	2785
15°	2802	2785	2786
20°	2790	2781	2805
25°	2784	2783	2801
30°	2808	2768	2774
35°	2795	2755	2758
40°	2774	2752	2754
45°	2775	2741	2760
50°	2788	2724	2747
55°	2800	2687	2707
60°	2754	2645	2672
65°	2702	2568	2611
70°	2620	2477	2421
75°	2476	2274	1867
80°	2208	1757	1724
85°	1731	1627	1496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	3.2
10°-20°	565.4	9.1
20°-30°	864.2	13.9
30°-40°	1053.7	17.0
40°-50°	1115.2	17.9
50°-60°	1033.5	16.6
60°-70°	810.8	13.1
70°-80°	452.4	7.3
80°-90°	121.0	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°	1626.4	26.2
0°-40°	2680.1	43.1
0°-60°	4828.8	77.7
0°-90°	6212.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6212.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2088	2068	2072	2068	2068	198
15°	2011	2004	1999	1998	2000	568
25°	1876	1877	1875	1867	1886	868
35°	1702	1682	1677	1683	1679	1064
45°	1458	1456	1440	1432	1451	1126
55°	1194	1162	1146	1148	1154	1062
65°	849	834	807	815	820	839
75°	476	457	438	383	359	502
85°	112	106	105	99	97	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2076.1	2076.1	2076.1	2076.1	2076.1
2.5°	2079.4	2074.4	2076.9	2069.3	2079.4
5°	2087.9	2068.5	2071.8	2067.6	2067.6
7.5°	2067.6	2059.2	2059.2	2060.0	2054.1
10°	2056.7	2045.7	2043.2	2045.7	2038.1
12.5°	2040.7	2024.6	2023.0	2024.6	2021.3
15°	2011.2	2003.6	1999.4	1998.5	2000.2
17.5°	1979.1	1977.4	1973.2	1969.9	1980.8
20°	1948.8	1950.5	1942.0	1939.5	1958.9
22.5°	1915.1	1915.1	1911.7	1903.3	1929.4
25°	1875.5	1877.1	1874.6	1867.0	1886.4
27.5°	1845.1	1832.5	1829.9	1827.4	1837.5
30°	1807.2	1784.4	1781.9	1782.7	1785.3
32.5°	1757.4	1734.7	1730.5	1735.5	1732.2
35°	1701.8	1681.6	1677.4	1683.3	1679.1
37.5°	1642.0	1630.2	1625.1	1625.1	1623.4
40°	1579.6	1574.5	1567.0	1564.4	1567.8
42.5°	1520.6	1519.7	1503.7	1500.4	1513.0
45°	1458.2	1456.5	1440.5	1432.1	1450.6
47.5°	1395.8	1389.1	1371.4	1363.0	1384.0
50°	1331.8	1315.8	1301.4	1298.9	1312.4
52.5°	1265.2	1239.9	1223.0	1221.4	1234.8
55°	1193.5	1161.5	1145.5	1148.0	1153.9
57.5°	1108.4	1084.0	1068.0	1067.1	1070.5
60°	1023.3	1002.2	982.8	985.4	992.9
62.5°	936.5	919.6	896.0	903.6	903.6
65°	848.8	833.6	806.7	815.1	820.1
67.5°	759.5	742.6	716.5	720.7	725.7
70°	665.9	647.3	629.6	613.6	615.3
72.5°	571.5	551.3	539.5	499.0	487.2
75°	476.2	456.9	437.5	382.7	359.1
77.5°	379.3	368.3	331.3	272.3	263.8
80°	284.9	279.8	226.7	223.4	222.5
82.5°	197.2	188.8	172.8	162.7	160.2
85°	112.1	106.2	105.4	98.6	96.9
87.5°	39.6	42.1	43.0	43.0	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)