

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: P393725

Luminaire Tested: **24EN-LD2-74-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393725
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 (4000K)
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: 6438.5 lumens
Efficiency: N/A
Efficacy: 117.9 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

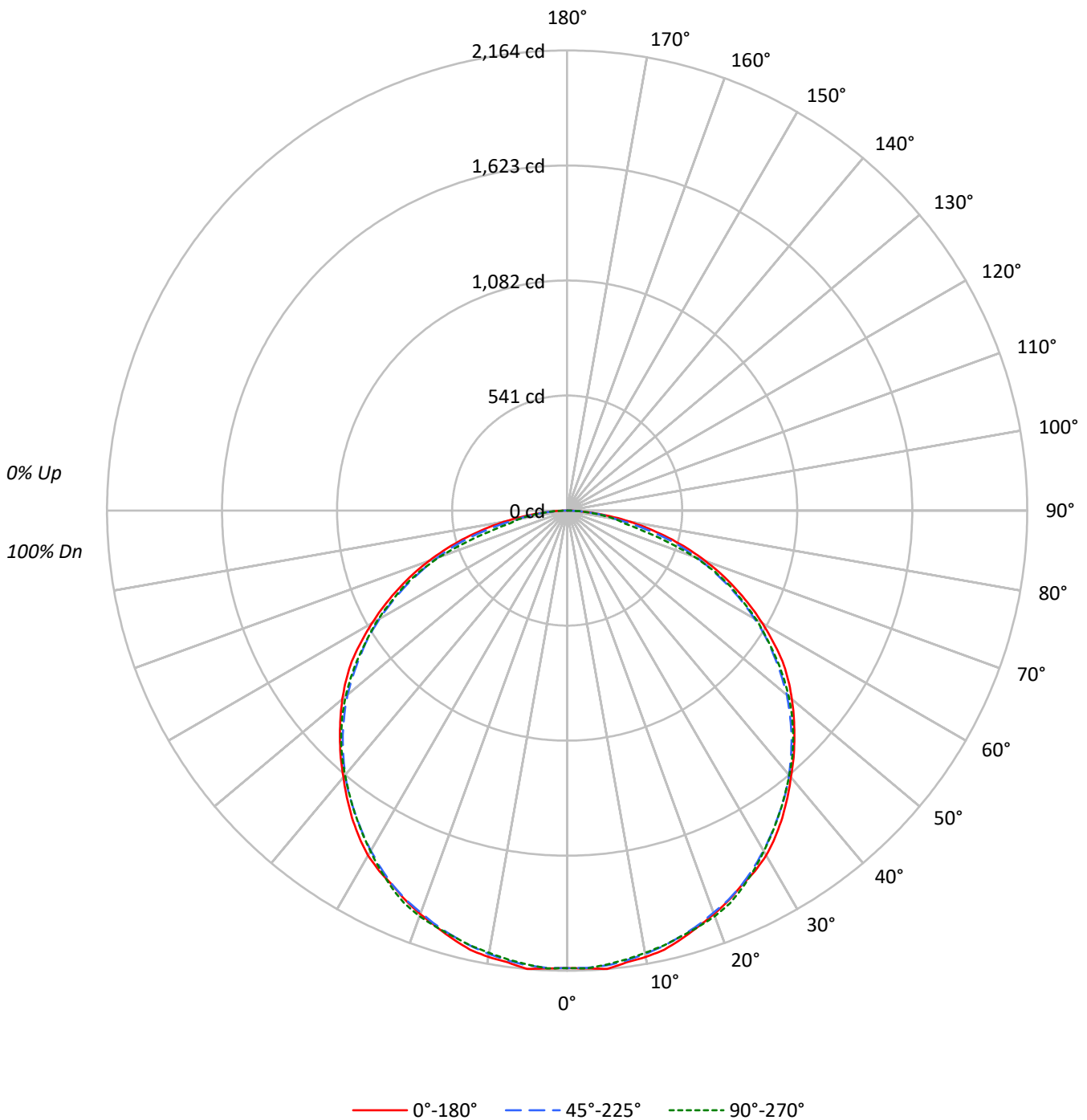
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393725

CATALOG NUMBER: 24EN-LD2-74-UNV-L93050-W2A-1-U (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393725

CATALOG NUMBER: 24EN-LD2-74-UNV-L93050-W2A-1-U (4000K)

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°	2895	2895	2895
5°	2922	2900	2894
10°	2912	2893	2886
15°	2903	2886	2887
20°	2892	2882	2907
25°	2885	2884	2902
30°	2910	2869	2874
35°	2897	2855	2858
40°	2875	2852	2854
45°	2876	2841	2860
50°	2889	2823	2847
55°	2902	2785	2805
60°	2854	2741	2769
65°	2800	2661	2706
70°	2715	2567	2509
75°	2565	2357	1934
80°	2287	1821	1787
85°	1794	1686	1551



TEST NUMBER: P393725

CATALOG NUMBER: 24EN-LD2-74-UNV-L93050-W2A-1-U (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.2
10°-20°	585.9	9.1
20°-30°	895.6	13.9
30°-40°	1091.9	17.0
40°-50°	1155.7	17.9
50°-60°	1071.1	16.6
60°-70°	840.3	13.1
70°-80°	468.8	7.3
80°-90°	125.4	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°	1685.5	26.2
0°-40°	2777.4	43.1
0°-60°	5004.1	77.7
0°-90°	6438.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6438.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2164	2144	2147	2143	2143	205
15°	2084	2076	2072	2071	2073	588
25°	1944	1945	1943	1935	1955	899
35°	1764	1743	1738	1744	1740	1103
45°	1511	1509	1493	1484	1503	1167
55°	1237	1204	1187	1190	1196	1100
65°	880	864	836	845	850	869
75°	494	473	453	397	372	520
85°	116	110	109	102	100	139
90°	0	0	0	0	0	



TEST NUMBER: P393725

CATALOG NUMBER: 24EN-LD2-74-UNV-L93050-W2A-1-U (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.4	2151.4	2151.4	2151.4	2151.4
2.5°	2154.9	2149.7	2152.3	2144.5	2154.9
5°	2163.7	2143.6	2147.1	2142.7	2142.7
7.5°	2142.7	2134.0	2134.0	2134.9	2128.7
10°	2131.4	2120.0	2117.4	2120.0	2112.1
12.5°	2114.8	2098.2	2096.4	2098.2	2094.7
15°	2084.2	2076.3	2072.0	2071.1	2072.8
17.5°	2051.0	2049.2	2044.9	2041.4	2052.7
20°	2019.5	2021.3	2012.6	2009.9	2030.0
22.5°	1984.6	1984.6	1981.1	1972.4	1999.5
25°	1943.6	1945.3	1942.7	1934.8	1954.9
27.5°	1912.1	1899.0	1896.4	1893.8	1904.2
30°	1872.8	1849.2	1846.6	1847.5	1850.1
32.5°	1821.3	1797.7	1793.3	1798.6	1795.1
35°	1763.6	1742.6	1738.3	1744.4	1740.0
37.5°	1701.6	1689.4	1684.1	1684.1	1682.4
40°	1637.0	1631.7	1623.8	1621.2	1624.7
42.5°	1575.8	1574.9	1558.3	1554.8	1567.9
45°	1511.2	1509.4	1492.8	1484.1	1503.3
47.5°	1446.5	1439.5	1421.2	1412.5	1434.3
50°	1380.1	1363.5	1348.7	1346.1	1360.1
52.5°	1311.1	1284.9	1267.5	1265.7	1279.7
55°	1236.9	1203.7	1187.1	1189.7	1195.8
57.5°	1148.7	1123.3	1106.7	1105.9	1109.4
60°	1060.4	1038.6	1018.5	1021.1	1029.0
62.5°	970.5	953.0	928.5	936.4	936.4
65°	879.6	863.9	835.9	844.7	849.9
67.5°	787.0	769.6	742.5	746.8	752.1
70°	690.1	670.9	652.5	635.9	637.7
72.5°	592.2	571.3	559.0	517.1	504.9
75°	493.5	473.4	453.4	396.6	372.1
77.5°	393.1	381.7	343.3	282.1	273.4
80°	295.2	290.0	235.0	231.5	230.6
82.5°	204.4	195.7	179.1	168.6	166.0
85°	116.2	110.1	109.2	102.2	100.5
87.5°	41.1	43.7	44.5	44.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)