

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: P393691

Luminaire Tested: **24EN-LD2-70-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-70-UNV-L93050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5762.4 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

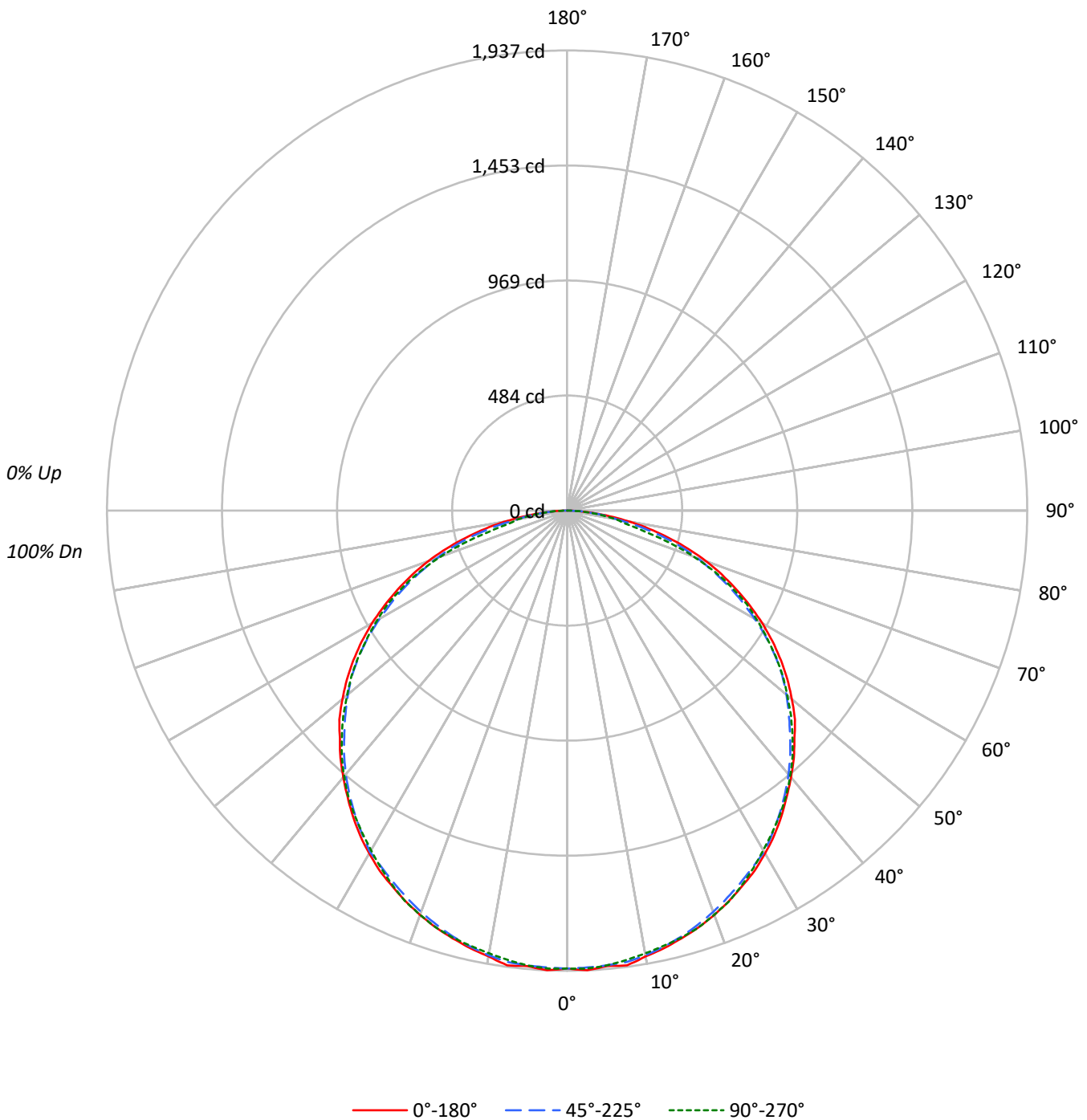
Input Watts (W): 51.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393691

CATALOG NUMBER: 24EN-LD2-70-UNV-L93050-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393691

CATALOG NUMBER: 24EN-LD2-70-UNV-L93050-W2A-1-U (3000K)

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°	2594	2594	2594
5°	2599	2595	2596
10°	2604	2597	2586
15°	2596	2586	2591
20°	2593	2574	2592
25°	2589	2566	2583
30°	2589	2578	2565
35°	2582	2560	2566
40°	2575	2546	2565
45°	2575	2524	2552
50°	2585	2522	2530
55°	2577	2510	2516
60°	2552	2452	2485
65°	2504	2381	2430
70°	2447	2286	2234
75°	2298	2115	1738
80°	2038	1649	1611
85°	1624	1484	1369



TEST NUMBER: P393691

CATALOG NUMBER: 24EN-LD2-70-UNV-L93050-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	3.2
10°-20°	524.2	9.1
20°-30°	800.4	13.9
30°-40°	976.9	17.0
40°-50°	1032.7	17.9
50°-60°	960.4	16.7
60°-70°	751.6	13.0
70°-80°	421.7	7.3
80°-90°	111.8	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°	1507.4	26.2
0°-40°	2484.3	43.1
0°-60°	4477.3	77.7
0°-90°	5762.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5762.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1924	1922	1921	1920	1922	184
15°	1864	1858	1856	1848	1860	527
25°	1744	1735	1728	1738	1740	805
35°	1572	1565	1559	1553	1562	984
45°	1353	1343	1326	1334	1341	1046
55°	1099	1084	1070	1065	1072	981
65°	786	769	748	752	763	778
75°	442	426	407	359	334	467
85°	105	98	96	90	89	123
90°	0	0	0	0	0	



TEST NUMBER: P393691

CATALOG NUMBER: 24EN-LD2-70-UNV-L93050-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1927.8	1927.8	1927.8	1927.8	1927.8
2.5°	1936.8	1924.5	1925.3	1929.5	1929.5
5°	1924.5	1922.1	1921.2	1919.6	1922.1
7.5°	1931.1	1914.7	1917.1	1907.3	1908.1
10°	1905.6	1899.0	1900.7	1893.3	1892.5
12.5°	1886.7	1884.3	1880.1	1872.8	1876.9
15°	1863.7	1858.0	1856.3	1848.1	1860.4
17.5°	1839.9	1830.8	1828.4	1823.4	1839.9
20°	1811.1	1802.9	1798.0	1797.2	1810.3
22.5°	1779.1	1770.9	1763.5	1769.2	1780.7
25°	1743.7	1734.7	1728.1	1738.0	1739.6
27.5°	1709.2	1698.5	1692.0	1697.7	1696.9
30°	1666.5	1657.5	1659.1	1653.3	1650.9
32.5°	1622.1	1613.9	1609.8	1604.0	1606.5
35°	1572.0	1565.4	1558.8	1553.1	1562.1
37.5°	1518.6	1514.5	1505.4	1499.7	1513.7
40°	1466.0	1457.0	1449.6	1445.4	1460.2
42.5°	1412.6	1402.7	1389.6	1388.7	1404.4
45°	1353.4	1342.7	1326.3	1334.5	1341.1
47.5°	1300.8	1283.6	1265.5	1273.7	1277.8
50°	1235.1	1221.1	1204.7	1208.0	1208.8
52.5°	1168.5	1157.0	1141.4	1137.3	1144.7
55°	1098.7	1083.9	1069.9	1065.0	1072.4
57.5°	1024.7	1011.6	993.5	986.9	996.8
60°	948.3	931.0	911.3	911.3	923.6
62.5°	867.8	853.8	830.0	833.2	851.3
65°	786.4	769.2	747.8	751.9	763.4
67.5°	705.1	687.8	662.3	668.1	673.0
70°	622.1	600.7	581.0	575.2	567.8
72.5°	532.5	512.8	499.6	468.4	456.1
75°	442.1	425.7	406.8	359.1	334.4
77.5°	353.3	342.7	312.3	256.4	246.5
80°	263.0	258.0	212.8	208.7	207.9
82.5°	179.1	175.9	161.9	150.4	147.9
85°	105.2	97.8	96.1	89.6	88.7
87.5°	36.2	39.4	38.6	39.4	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)