

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: P393674

Luminaire Tested: **24EN-LD2-70-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393674
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-L83050-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6765.7 lumens
Efficiency: N/A
Efficacy: 133.2 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

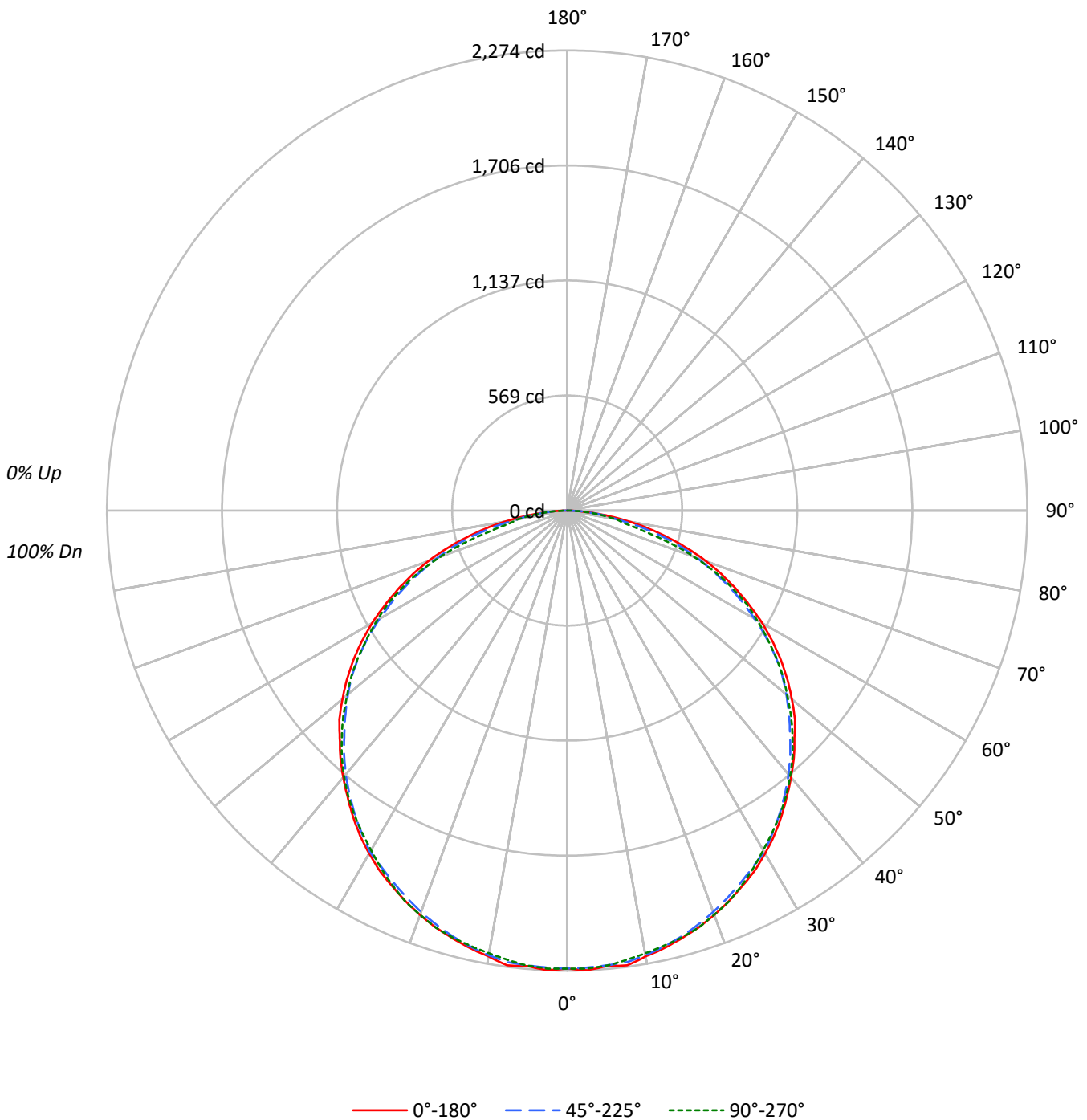
Input Watts (W): 50.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3046	3046	3046
5°	3052	3047	3048
10°	3057	3049	3036
15°	3048	3036	3043
20°	3045	3023	3043
25°	3039	3012	3032
30°	3040	3026	3011
35°	3032	3006	3013
40°	3023	2989	3011
45°	3024	2963	2996
50°	3035	2961	2971
55°	3026	2947	2954
60°	2996	2879	2918
65°	2940	2795	2854
70°	2873	2683	2623
75°	2699	2483	2041
80°	2392	1936	1891
85°	1907	1743	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	3.2
10°-20°	615.5	9.1
20°-30°	939.8	13.9
30°-40°	1147.0	17.0
40°-50°	1212.5	17.9
50°-60°	1127.6	16.7
60°-70°	882.4	13.0
70°-80°	495.1	7.3
80°-90°	131.3	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°	1769.8	26.2
0°-40°	2916.8	43.1
0°-60°	5256.9	77.7
0°-90°	6765.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6765.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2260	2257	2256	2254	2257	216
15°	2188	2182	2180	2170	2184	618
25°	2047	2037	2029	2041	2042	945
35°	1846	1838	1830	1824	1834	1155
45°	1589	1576	1557	1567	1575	1229
55°	1290	1273	1256	1250	1259	1152
65°	923	903	878	883	896	914
75°	519	500	478	422	393	548
85°	124	115	113	105	104	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.5	2263.5	2263.5	2263.5	2263.5
2.5°	2274.1	2259.6	2260.6	2265.4	2265.4
5°	2259.6	2256.7	2255.8	2253.8	2256.7
7.5°	2267.3	2248.0	2250.9	2239.3	2240.3
10°	2237.4	2229.7	2231.6	2222.9	2222.0
12.5°	2215.2	2212.3	2207.5	2198.8	2203.7
15°	2188.2	2181.5	2179.5	2169.9	2184.4
17.5°	2160.2	2149.6	2146.7	2140.9	2160.2
20°	2126.5	2116.8	2111.0	2110.1	2125.5
22.5°	2088.8	2079.2	2070.5	2077.3	2090.8
25°	2047.3	2036.7	2029.0	2040.6	2042.5
27.5°	2006.8	1994.3	1986.6	1993.3	1992.4
30°	1956.7	1946.0	1948.0	1941.2	1938.3
32.5°	1904.6	1894.9	1890.1	1883.3	1886.2
35°	1845.7	1838.0	1830.3	1823.5	1834.1
37.5°	1783.0	1778.2	1767.6	1760.8	1777.2
40°	1721.2	1710.6	1701.9	1697.1	1714.5
42.5°	1658.5	1646.9	1631.5	1630.5	1648.9
45°	1589.1	1576.5	1557.2	1566.9	1574.6
47.5°	1527.3	1507.0	1485.8	1495.5	1500.3
50°	1450.1	1433.7	1414.4	1418.3	1419.3
52.5°	1372.0	1358.5	1340.1	1335.3	1344.0
55°	1290.0	1272.6	1256.2	1250.4	1259.1
57.5°	1203.1	1187.7	1166.5	1158.7	1170.3
60°	1113.4	1093.1	1070.0	1070.0	1084.5
62.5°	1018.9	1002.4	974.5	978.3	999.6
65°	923.3	903.1	878.0	882.8	896.3
67.5°	827.8	807.6	777.6	784.4	790.2
70°	730.4	705.3	682.1	675.4	666.7
72.5°	625.2	602.0	586.6	549.9	535.5
75°	519.1	499.8	477.6	421.6	392.7
77.5°	414.9	402.3	366.6	301.0	289.4
80°	308.7	303.0	249.9	245.1	244.1
82.5°	210.3	206.5	190.1	176.6	173.7
85°	123.5	114.8	112.9	105.2	104.2
87.5°	42.5	46.3	45.3	46.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)