

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: P393684

Luminaire Tested: **24EN-LD2-70-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393684
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-L92765-W2A-1-U (3500K)
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: 5553.5 lumens
Efficiency: N/A
Efficacy: 108.5 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

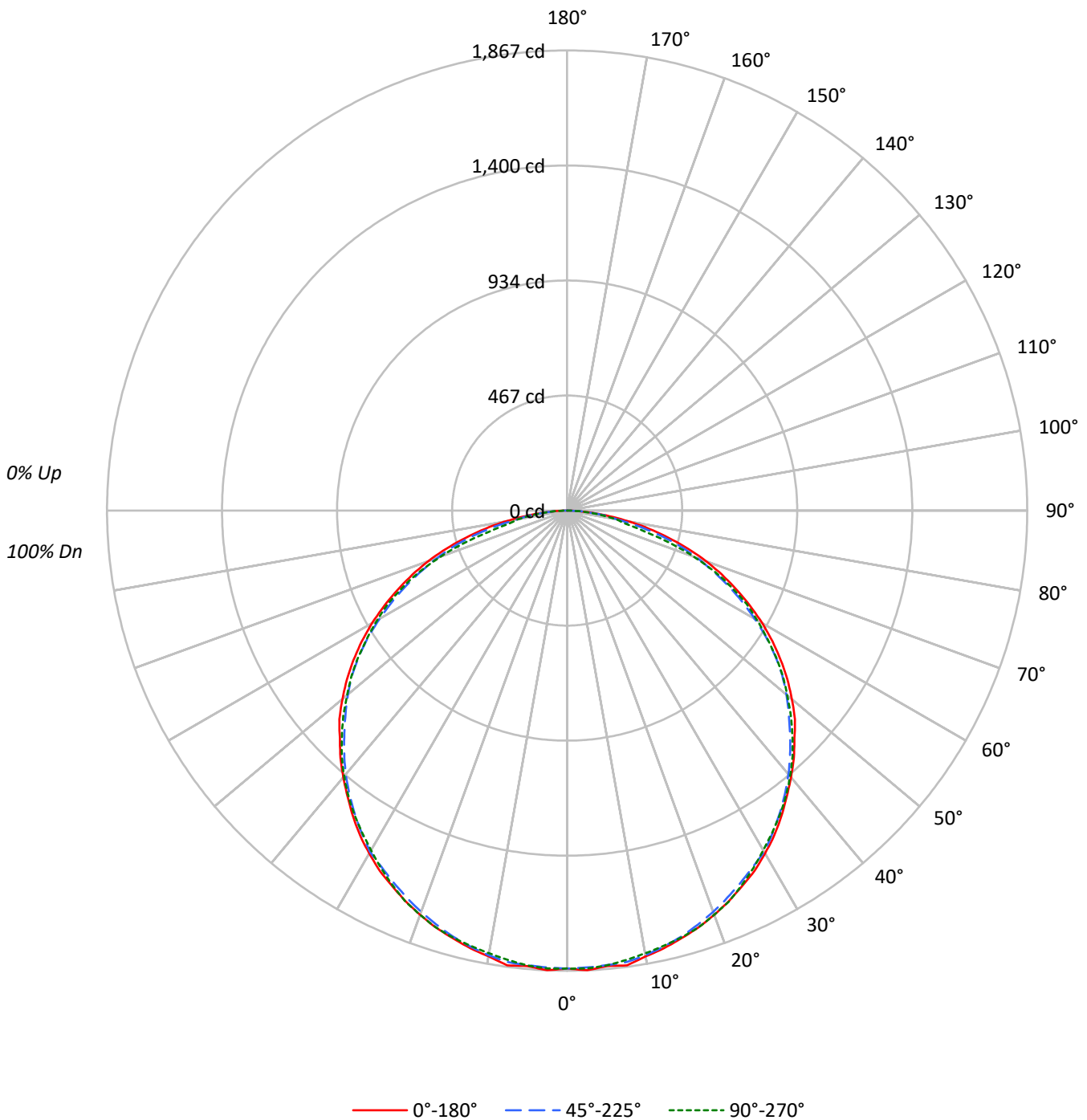
Input Watts (W): 51.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2500	2500	2500
5°	2505	2501	2502
10°	2509	2503	2492
15°	2502	2492	2498
20°	2499	2481	2498
25°	2495	2473	2489
30°	2495	2484	2472
35°	2488	2468	2473
40°	2481	2454	2472
45°	2482	2432	2459
50°	2492	2430	2439
55°	2484	2419	2424
60°	2459	2363	2396
65°	2413	2294	2342
70°	2358	2203	2153
75°	2215	2038	1675
80°	1963	1589	1553
85°	1565	1431	1320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.2
10°-20°	505.2	9.1
20°-30°	771.4	13.9
30°-40°	941.5	17.0
40°-50°	995.3	17.9
50°-60°	925.6	16.7
60°-70°	724.3	13.0
70°-80°	406.4	7.3
80°-90°	107.8	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°	1452.7	26.2
0°-40°	2394.2	43.1
0°-60°	4315.0	77.7
0°-90°	5553.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1855	1852	1852	1850	1852	177
15°	1796	1791	1789	1781	1793	507
25°	1680	1672	1666	1675	1677	776
35°	1515	1509	1502	1497	1506	948
45°	1304	1294	1278	1286	1292	1009
55°	1059	1045	1031	1026	1034	945
65°	758	741	721	725	736	750
75°	426	410	392	346	322	450
85°	101	94	93	86	86	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.9	1857.9	1857.9	1857.9	1857.9
2.5°	1866.6	1854.8	1855.5	1859.5	1859.5
5°	1854.8	1852.4	1851.6	1850.0	1852.4
7.5°	1861.1	1845.2	1847.6	1838.1	1838.9
10°	1836.5	1830.2	1831.8	1824.7	1823.9
12.5°	1818.3	1815.9	1812.0	1804.9	1808.8
15°	1796.1	1790.6	1789.0	1781.1	1793.0
17.5°	1773.2	1764.5	1762.1	1757.3	1773.2
20°	1745.5	1737.5	1732.8	1732.0	1744.7
22.5°	1714.6	1706.7	1699.5	1705.1	1716.2
25°	1680.5	1671.8	1665.5	1675.0	1676.6
27.5°	1647.3	1637.0	1630.6	1636.2	1635.4
30°	1606.1	1597.4	1599.0	1593.4	1591.0
32.5°	1563.3	1555.4	1551.4	1545.9	1548.3
35°	1515.0	1508.7	1502.3	1496.8	1505.5
37.5°	1463.5	1459.6	1450.9	1445.3	1458.8
40°	1412.8	1404.1	1397.0	1393.0	1407.3
42.5°	1361.4	1351.9	1339.2	1338.4	1353.4
45°	1304.3	1294.1	1278.2	1286.1	1292.5
47.5°	1253.7	1237.0	1219.6	1227.5	1231.5
50°	1190.3	1176.8	1161.0	1164.2	1165.0
52.5°	1126.2	1115.1	1100.0	1096.1	1103.2
55°	1058.8	1044.6	1031.1	1026.4	1033.5
57.5°	987.6	974.9	957.5	951.1	960.6
60°	913.9	897.3	878.3	878.3	890.2
62.5°	836.3	822.8	799.9	803.0	820.5
65°	757.9	741.3	720.7	724.6	735.7
67.5°	679.5	662.9	638.3	643.9	648.6
70°	599.5	578.9	559.9	554.4	547.2
72.5°	513.2	494.2	481.5	451.4	439.5
75°	426.1	410.2	392.0	346.1	322.3
77.5°	340.5	330.2	300.9	247.1	237.6
80°	253.4	248.7	205.1	201.2	200.4
82.5°	172.6	169.5	156.0	144.9	142.6
85°	101.4	94.2	92.7	86.3	85.5
87.5°	34.8	38.0	37.2	38.0	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)