

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: P393688

Luminaire Tested: **24EN-LD2-70-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393688
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 (5700K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6001.7 lumens
Efficiency: N/A
Efficacy: 117.2 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

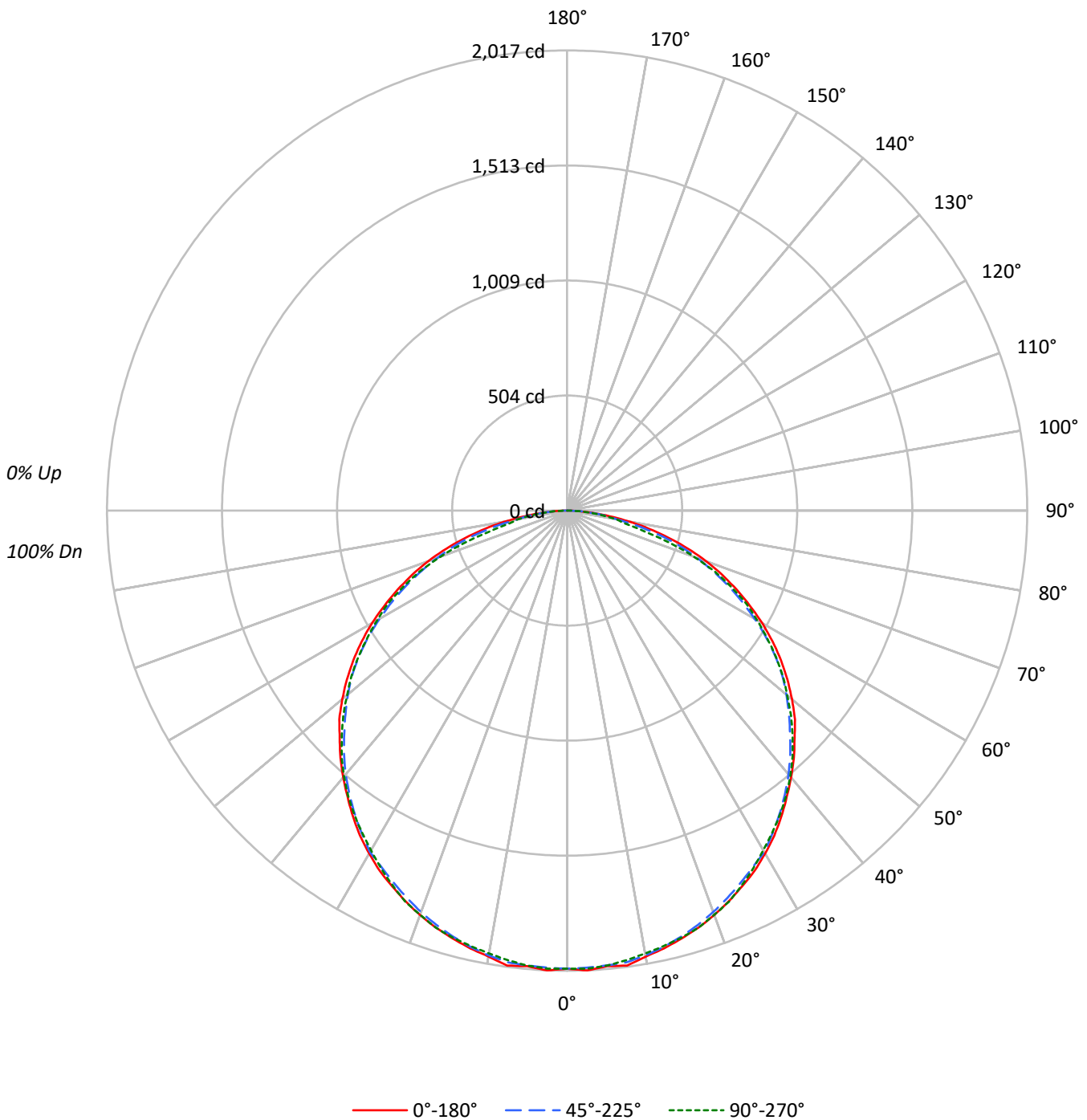
Input Watts (W): 51.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2702	2702	2702
5°	2707	2703	2704
10°	2712	2705	2693
15°	2704	2693	2699
20°	2701	2681	2700
25°	2696	2672	2690
30°	2697	2685	2671
35°	2689	2667	2672
40°	2682	2652	2671
45°	2682	2629	2658
50°	2693	2626	2635
55°	2684	2614	2620
60°	2658	2554	2589
65°	2608	2479	2531
70°	2549	2380	2327
75°	2394	2203	1811
80°	2122	1718	1678
85°	1692	1545	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	3.2
10°-20°	546.0	9.1
20°-30°	833.6	13.9
30°-40°	1017.4	17.0
40°-50°	1075.6	17.9
50°-60°	1000.3	16.7
60°-70°	782.8	13.0
70°-80°	439.2	7.3
80°-90°	116.5	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°	1570.0	26.2
0°-40°	2587.4	43.1
0°-60°	4663.3	77.7
0°-90°	6001.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6001.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2004	2002	2001	1999	2002	191
15°	1941	1935	1933	1925	1938	548
25°	1816	1807	1800	1810	1812	838
35°	1637	1630	1624	1618	1627	1024
45°	1410	1398	1381	1390	1397	1090
55°	1144	1129	1114	1109	1117	1021
65°	819	801	779	783	795	811
75°	460	443	424	374	348	486
85°	110	102	100	93	92	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.9	2007.9	2007.9	2007.9	2007.9
2.5°	2017.3	2004.4	2005.3	2009.6	2009.6
5°	2004.4	2001.9	2001.0	1999.3	2001.9
7.5°	2011.3	1994.2	1996.7	1986.5	1987.3
10°	1984.8	1977.9	1979.6	1971.9	1971.1
12.5°	1965.1	1962.5	1958.2	1950.5	1954.8
15°	1941.1	1935.1	1933.4	1924.8	1937.7
17.5°	1916.3	1906.9	1904.3	1899.2	1916.3
20°	1886.3	1877.8	1872.6	1871.8	1885.5
22.5°	1853.0	1844.4	1836.7	1842.7	1854.7
25°	1816.2	1806.7	1799.9	1810.2	1811.9
27.5°	1780.2	1769.1	1762.2	1768.2	1767.4
30°	1735.7	1726.3	1728.0	1722.0	1719.4
32.5°	1689.5	1680.9	1676.6	1670.7	1673.2
35°	1637.3	1630.4	1623.6	1617.6	1627.0
37.5°	1581.6	1577.4	1567.9	1562.0	1576.5
40°	1526.9	1517.5	1509.8	1505.5	1520.9
42.5°	1471.2	1461.0	1447.3	1446.4	1462.7
45°	1409.6	1398.5	1381.4	1389.9	1396.8
47.5°	1354.8	1336.9	1318.0	1326.6	1330.9
50°	1286.4	1271.8	1254.7	1258.1	1259.0
52.5°	1217.0	1205.1	1188.8	1184.5	1192.2
55°	1144.3	1128.9	1114.3	1109.2	1116.9
57.5°	1067.3	1053.6	1034.7	1027.9	1038.2
60°	987.7	969.7	949.2	949.2	962.0
62.5°	903.8	889.2	864.4	867.8	886.7
65°	819.1	801.1	778.8	783.1	795.1
67.5°	734.3	716.4	689.8	695.8	701.0
70°	647.9	625.6	605.1	599.1	591.4
72.5°	554.6	534.1	520.4	487.8	475.0
75°	460.5	443.3	423.7	374.0	348.3
77.5°	368.0	356.9	325.2	267.0	256.8
80°	273.9	268.7	221.7	217.4	216.5
82.5°	186.6	183.2	168.6	156.6	154.1
85°	109.6	101.8	100.1	93.3	92.4
87.5°	37.7	41.1	40.2	41.1	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)