

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: P393634

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L82765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6047.6 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

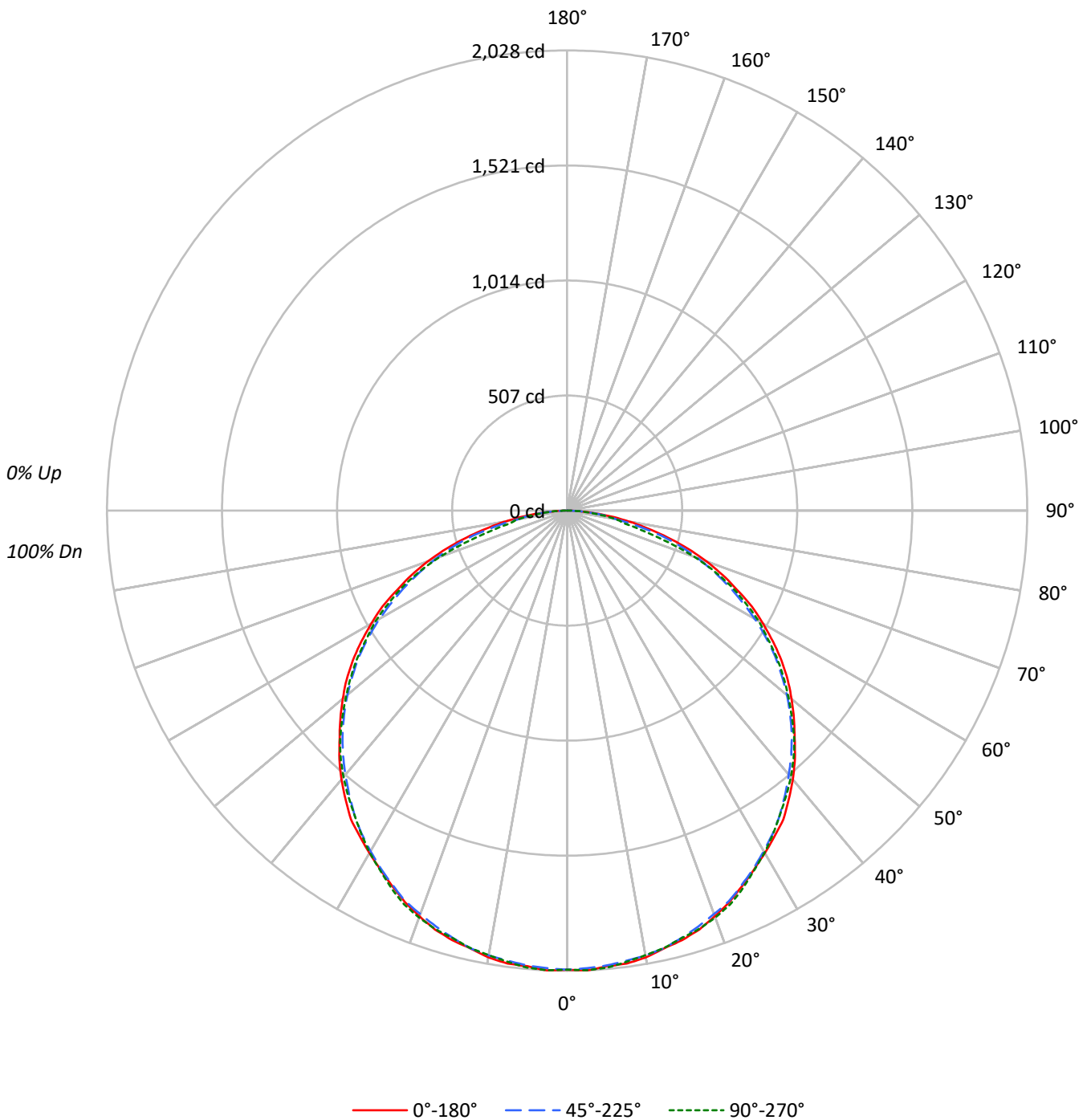
Input Watts (W): 48.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	42	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°	2722	2722	2722
5°	2723	2718	2731
10°	2732	2719	2718
15°	2729	2716	2717
20°	2725	2709	2733
25°	2709	2703	2724
30°	2707	2693	2704
35°	2729	2686	2686
40°	2717	2669	2693
45°	2698	2664	2691
50°	2702	2647	2662
55°	2706	2625	2645
60°	2684	2569	2626
65°	2632	2496	2560
70°	2566	2409	2348
75°	2385	2239	1809
80°	2154	1710	1703
85°	1724	1570	1431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	3.2
10°-20°	551.0	9.1
20°-30°	841.5	13.9
30°-40°	1025.3	17.0
40°-50°	1085.5	17.9
50°-60°	1005.6	16.6
60°-70°	789.6	13.1
70°-80°	440.1	7.3
80°-90°	117.4	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°	1584.0	26.2
0°-40°	2609.3	43.1
0°-60°	4700.5	77.7
0°-90°	6047.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6047.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2016	2019	2012	2009	2022	192
15°	1960	1952	1950	1946	1950	553
25°	1825	1827	1820	1823	1835	842
35°	1662	1642	1635	1628	1635	1036
45°	1418	1415	1400	1402	1414	1097
55°	1154	1135	1119	1113	1127	1029
65°	827	809	784	794	804	820
75°	459	443	431	370	348	487
85°	112	103	102	94	93	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.1	2023.1	2023.1	2023.1	2023.1
2.5°	2028.5	2019.4	2018.5	2020.3	2027.6
5°	2015.8	2019.4	2012.2	2009.4	2022.2
7.5°	2013.1	2011.3	2001.3	1994.9	2005.8
10°	1999.5	1996.7	1990.4	1980.4	1989.5
12.5°	1975.8	1977.7	1974.9	1964.0	1974.0
15°	1959.5	1952.2	1949.5	1945.9	1950.4
17.5°	1935.9	1921.3	1922.2	1927.7	1933.1
20°	1903.2	1890.4	1892.3	1902.3	1908.6
22.5°	1867.7	1862.3	1863.2	1866.8	1878.6
25°	1825.0	1826.9	1820.5	1823.2	1835.0
27.5°	1783.2	1789.6	1778.7	1776.0	1786.0
30°	1742.4	1745.1	1733.3	1726.9	1740.6
32.5°	1701.5	1695.1	1687.0	1677.9	1688.8
35°	1661.5	1641.5	1635.2	1627.9	1635.2
37.5°	1604.3	1587.9	1577.9	1578.9	1585.2
40°	1547.1	1528.9	1519.8	1527.1	1533.4
42.5°	1486.2	1469.8	1461.7	1467.1	1478.0
45°	1418.1	1415.3	1399.9	1401.7	1414.4
47.5°	1355.4	1351.7	1333.6	1333.6	1342.7
50°	1290.9	1280.9	1264.5	1259.1	1271.8
52.5°	1225.5	1208.2	1191.0	1189.1	1200.0
55°	1153.7	1134.6	1119.2	1112.8	1127.4
57.5°	1075.6	1057.4	1037.4	1037.4	1046.5
60°	997.5	975.7	954.8	955.7	975.7
62.5°	918.4	896.6	867.6	873.0	889.4
65°	826.7	809.4	784.0	794.0	804.0
67.5°	742.2	723.1	696.8	705.9	705.9
70°	652.3	627.7	612.3	602.3	596.8
72.5°	557.8	535.1	524.2	487.8	472.4
75°	458.8	443.3	430.6	369.7	347.9
77.5°	364.3	356.1	321.6	268.9	256.2
80°	278.0	271.6	220.7	218.9	219.8
82.5°	189.9	182.6	169.0	158.1	152.6
85°	111.7	102.7	101.7	93.6	92.7
87.5°	37.2	40.9	42.7	41.8	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)