

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: P393637

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393637
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 (4000K)
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: 6218.8 lumens
Efficiency: N/A
Efficacy: 128.2 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

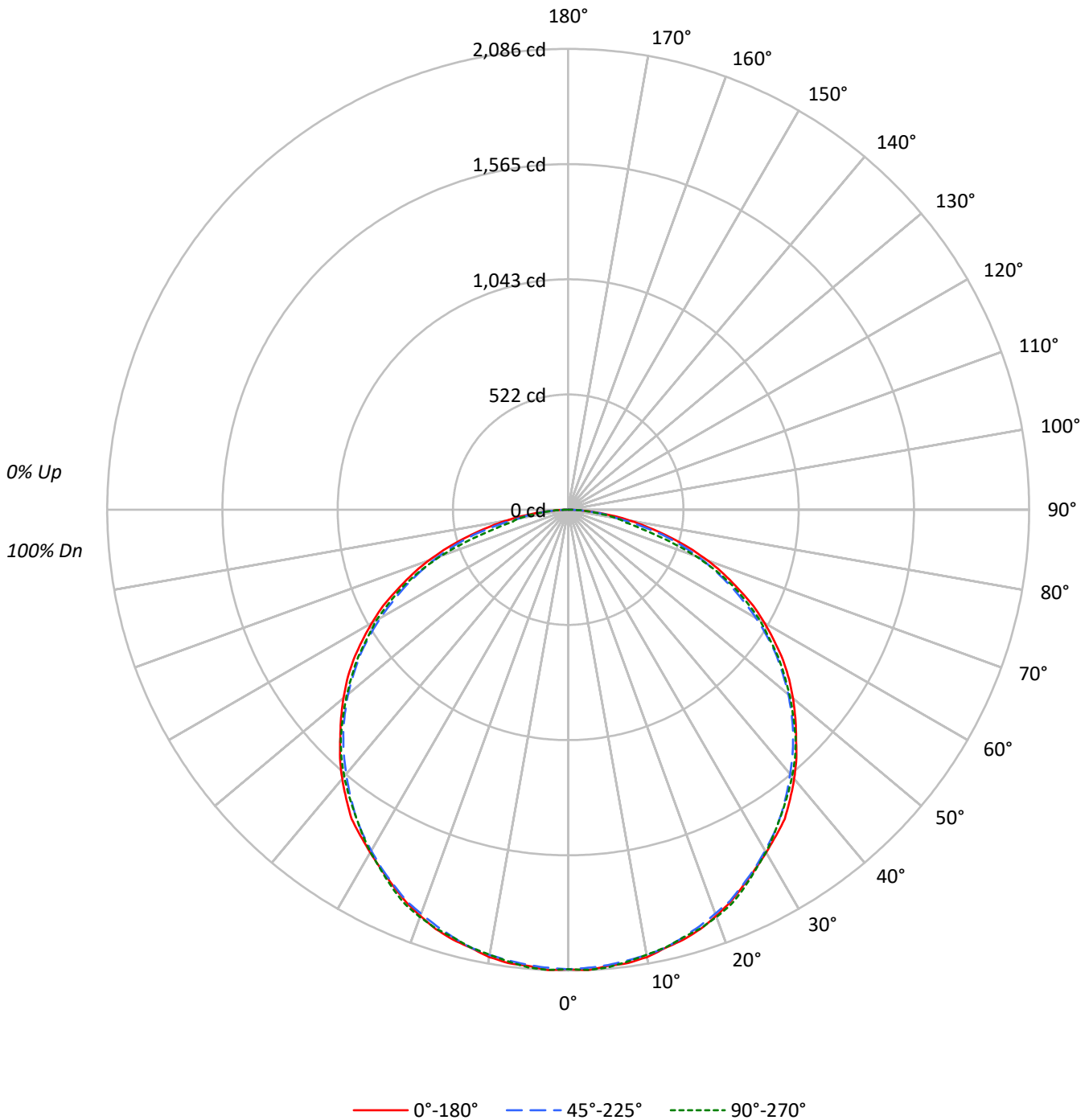
Input Watts (W): 48.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2799	2799	2799
5°	2800	2795	2808
10°	2809	2796	2795
15°	2807	2792	2794
20°	2802	2786	2810
25°	2786	2779	2801
30°	2784	2769	2781
35°	2806	2762	2762
40°	2794	2745	2770
45°	2775	2739	2768
50°	2779	2722	2737
55°	2783	2700	2719
60°	2760	2642	2700
65°	2706	2567	2632
70°	2638	2477	2414
75°	2452	2302	1860
80°	2214	1759	1752
85°	1774	1615	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	3.2
10°-20°	566.6	9.1
20°-30°	865.3	13.9
30°-40°	1054.3	17.0
40°-50°	1116.2	17.9
50°-60°	1034.1	16.6
60°-70°	812.0	13.1
70°-80°	452.6	7.3
80°-90°	120.7	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°	1628.9	26.2
0°-40°	2683.2	43.1
0°-60°	4833.5	77.7
0°-90°	6218.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2073	2077	2069	2066	2079	198
15°	2015	2008	2005	2001	2006	569
25°	1877	1879	1872	1875	1887	866
35°	1709	1688	1682	1674	1682	1065
45°	1458	1455	1440	1441	1454	1128
55°	1186	1167	1151	1144	1159	1058
65°	850	832	806	816	827	843
75°	472	456	443	380	358	501
85°	115	106	105	96	95	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2080.3	2080.3	2080.3	2080.3	2080.3
2.5°	2085.9	2076.6	2075.7	2077.5	2085.0
5°	2072.9	2076.6	2069.1	2066.3	2079.4
7.5°	2070.1	2068.2	2057.9	2051.4	2062.6
10°	2056.1	2053.3	2046.7	2036.4	2045.8
12.5°	2031.8	2033.6	2030.8	2019.6	2029.9
15°	2015.0	2007.5	2004.7	2000.9	2005.6
17.5°	1990.7	1975.7	1976.7	1982.3	1987.9
20°	1957.0	1944.0	1945.8	1956.1	1962.6
22.5°	1920.6	1915.0	1915.9	1919.7	1931.8
25°	1876.7	1878.6	1872.0	1874.8	1887.0
27.5°	1833.7	1840.3	1829.1	1826.3	1836.5
30°	1791.7	1794.5	1782.3	1775.8	1789.8
32.5°	1749.7	1743.1	1734.7	1725.4	1736.6
35°	1708.6	1688.0	1681.5	1674.0	1681.5
37.5°	1649.7	1632.9	1622.6	1623.5	1630.1
40°	1590.8	1572.2	1562.8	1570.3	1576.8
42.5°	1528.3	1511.4	1503.0	1508.6	1519.9
45°	1458.2	1455.4	1439.5	1441.4	1454.5
47.5°	1393.7	1390.0	1371.3	1371.3	1380.7
50°	1327.4	1317.1	1300.3	1294.7	1307.8
52.5°	1260.2	1242.4	1224.7	1222.8	1234.0
55°	1186.4	1166.7	1150.9	1144.3	1159.3
57.5°	1106.0	1087.3	1066.8	1066.8	1076.1
60°	1025.7	1003.3	981.8	982.7	1003.3
62.5°	944.4	922.0	892.1	897.7	914.5
65°	850.1	832.3	806.2	816.4	826.7
67.5°	763.2	743.6	716.5	725.8	725.8
70°	670.7	645.5	629.6	619.3	613.7
72.5°	573.6	550.2	539.0	501.6	485.8
75°	471.7	455.9	442.8	380.2	357.8
77.5°	374.6	366.2	330.7	276.5	263.4
80°	285.8	279.3	227.0	225.1	226.1
82.5°	195.2	187.8	173.8	162.5	156.9
85°	114.9	105.6	104.6	96.2	95.3
87.5°	38.3	42.0	43.9	43.0	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)