

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: P393620

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-58-UNV-L92765-W2A-1-U (3500K)  
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4598.5 lumens  
Efficiency: N/A  
Efficacy: 111.3 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

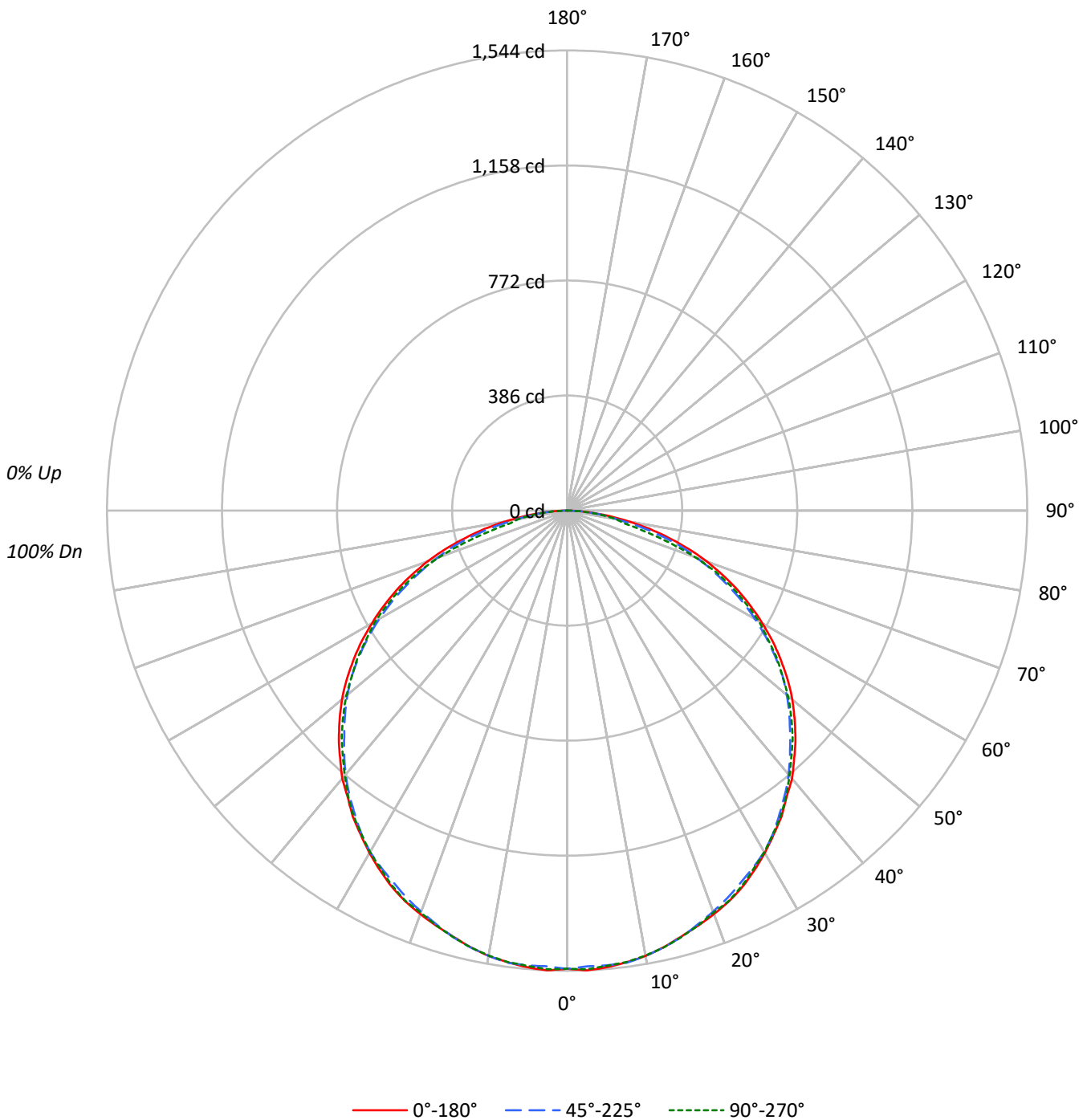
Input Watts (W): 41.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	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°	2068	2068	2068
5°	2077	2069	2071
10°	2073	2073	2071
15°	2061	2063	2064
20°	2063	2050	2056
25°	2068	2045	2062
30°	2061	2055	2055
35°	2059	2041	2053
40°	2062	2031	2038
45°	2062	2012	2036
50°	2066	2014	2026
55°	2055	1999	2010
60°	2035	1961	1999
65°	2010	1896	1949
70°	1956	1823	1795
75°	1832	1684	1400
80°	1620	1332	1301
85°	1247	1210	1101



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	3.2
10°-20°	417.9	9.1
20°-30°	638.3	13.9
30°-40°	779.0	16.9
40°-50°	823.8	17.9
50°-60°	766.2	16.7
60°-70°	600.9	13.1
70°-80°	337.0	7.3
80°-90°	89.5	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°	1201.9	26.1
0°-40°	1981.0	43.1
0°-60°	3571.0	77.7
0°-90°	4598.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4598.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1538	1532	1532	1527	1533	146
15°	1479	1481	1481	1477	1482	418
25°	1393	1384	1377	1385	1389	641
35°	1254	1250	1243	1235	1250	784
45°	1083	1072	1057	1064	1070	836
55°	876	866	852	849	857	783
65°	631	615	596	602	612	623
75°	352	340	324	288	269	373
85°	81	78	78	73	71	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1544.3	1534.0	1530.8	1534.0	1540.3
5°	1538.0	1531.6	1531.6	1526.9	1533.2
7.5°	1528.5	1526.1	1530.1	1517.4	1527.7
10°	1517.4	1513.4	1517.4	1503.9	1515.8
12.5°	1500.0	1499.2	1500.8	1493.6	1500.8
15°	1479.4	1481.0	1481.0	1477.0	1481.7
17.5°	1460.4	1461.2	1456.4	1461.2	1459.6
20°	1440.6	1439.0	1431.9	1440.6	1435.8
22.5°	1419.2	1414.4	1406.5	1415.2	1417.6
25°	1393.0	1384.3	1377.2	1385.1	1389.1
27.5°	1360.6	1351.9	1351.1	1351.1	1355.0
30°	1326.5	1320.2	1322.6	1316.2	1322.6
32.5°	1289.3	1286.9	1285.3	1276.6	1286.1
35°	1253.7	1249.7	1242.6	1235.4	1249.7
37.5°	1210.1	1207.7	1200.6	1196.6	1207.7
40°	1173.7	1164.2	1156.3	1153.9	1160.2
42.5°	1127.7	1116.7	1107.2	1111.1	1114.3
45°	1083.4	1072.3	1057.3	1064.4	1069.9
47.5°	1035.1	1023.2	1011.3	1016.1	1019.2
50°	986.8	971.7	962.2	961.4	967.8
52.5°	932.9	920.2	910.7	907.6	910.0
55°	875.9	865.6	852.1	849.0	856.9
57.5°	818.1	807.0	791.2	788.8	796.7
60°	756.3	745.2	728.6	728.6	742.9
62.5°	694.5	681.9	662.9	666.8	677.1
65°	631.2	614.6	595.5	601.9	612.2
67.5°	564.7	548.8	529.8	535.4	541.7
70°	497.3	479.9	463.3	458.5	456.2
72.5°	426.9	408.6	399.9	377.0	362.7
75°	352.4	339.7	323.9	287.5	269.3
77.5°	283.5	272.4	248.7	205.1	194.8
80°	209.1	208.3	171.9	167.1	167.9
82.5°	141.8	138.6	129.1	120.4	121.2
85°	80.8	77.6	78.4	72.9	71.3
87.5°	29.3	31.7	30.9	31.7	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)