

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: P393621

Luminaire Tested: **24EN-LD2-58-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393621  
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 (4000K)  
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: 4802.2 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

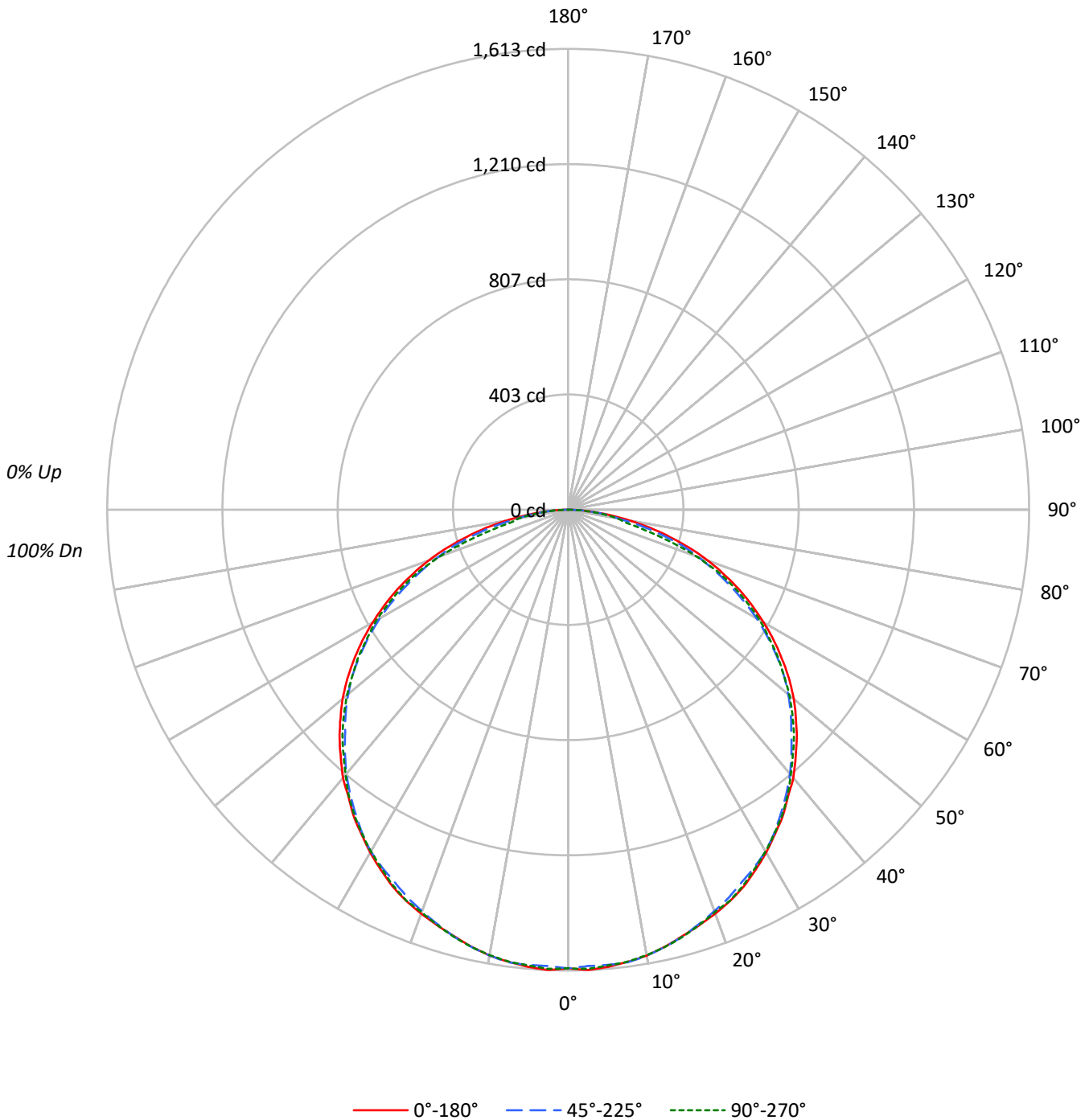
Input Watts (W): 41.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2160	2160	2160
5°	2169	2160	2162
10°	2165	2165	2163
15°	2152	2154	2155
20°	2154	2141	2147
25°	2160	2135	2154
30°	2152	2146	2146
35°	2150	2131	2144
40°	2153	2121	2128
45°	2153	2101	2126
50°	2157	2103	2115
55°	2146	2088	2099
60°	2125	2048	2088
65°	2098	1980	2035
70°	2043	1903	1874
75°	1913	1759	1462
80°	1691	1391	1358
85°	1303	1264	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	3.2
10°-20°	436.5	9.1
20°-30°	666.6	13.9
30°-40°	813.6	16.9
40°-50°	860.3	17.9
50°-60°	800.1	16.7
60°-70°	627.5	13.1
70°-80°	352.0	7.3
80°-90°	93.5	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°	1255.2	26.1
0°-40°	2068.7	43.1
0°-60°	3729.2	77.7
0°-90°	4802.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1606	1600	1600	1594	1601	153
15°	1545	1547	1547	1542	1547	437
25°	1455	1446	1438	1446	1451	670
35°	1309	1305	1298	1290	1305	819
45°	1131	1120	1104	1112	1117	873
55°	915	904	890	887	895	817
65°	659	642	622	628	639	651
75°	368	355	338	300	281	390
85°	84	81	82	76	74	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1612.7	1602.0	1598.7	1602.0	1608.6
5°	1606.1	1599.5	1599.5	1594.5	1601.1
7.5°	1596.2	1593.7	1597.8	1584.6	1595.4
10°	1584.6	1580.5	1584.6	1570.5	1582.9
12.5°	1566.4	1565.6	1567.2	1559.8	1567.2
15°	1544.9	1546.6	1546.6	1542.4	1547.4
17.5°	1525.1	1525.9	1520.9	1525.9	1524.2
20°	1504.4	1502.7	1495.3	1504.4	1499.4
22.5°	1482.1	1477.1	1468.8	1477.9	1480.4
25°	1454.8	1445.7	1438.2	1446.5	1450.6
27.5°	1420.8	1411.8	1410.9	1410.9	1415.1
30°	1385.3	1378.7	1381.2	1374.5	1381.2
32.5°	1346.4	1343.9	1342.3	1333.2	1343.1
35°	1309.2	1305.1	1297.6	1290.2	1305.1
37.5°	1263.7	1261.2	1253.8	1249.7	1261.2
40°	1225.7	1215.7	1207.5	1205.0	1211.6
42.5°	1177.7	1166.1	1156.2	1160.3	1163.6
45°	1131.4	1119.8	1104.1	1111.5	1117.3
47.5°	1080.9	1068.5	1056.1	1061.1	1064.4
50°	1030.5	1014.8	1004.8	1004.0	1010.6
52.5°	974.2	961.0	951.1	947.8	950.3
55°	914.7	904.0	889.9	886.6	894.9
57.5°	854.3	842.8	826.2	823.7	832.0
60°	789.8	778.2	760.9	760.9	775.8
62.5°	725.3	712.1	692.2	696.4	707.1
65°	659.1	641.8	621.9	628.5	639.3
67.5°	589.7	573.1	553.3	559.1	565.7
70°	519.4	501.2	483.8	478.9	476.4
72.5°	445.8	426.8	417.7	393.7	378.8
75°	368.0	354.8	338.3	300.2	281.2
77.5°	296.1	284.5	259.7	214.2	203.5
80°	218.3	217.5	179.5	174.5	175.3
82.5°	148.0	144.7	134.8	125.7	126.5
85°	84.4	81.0	81.9	76.1	74.4
87.5°	30.6	33.1	32.3	33.1	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)