

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: P183785

Luminaire Tested: **24SR-LD2-45-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-45-C-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5008.3 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

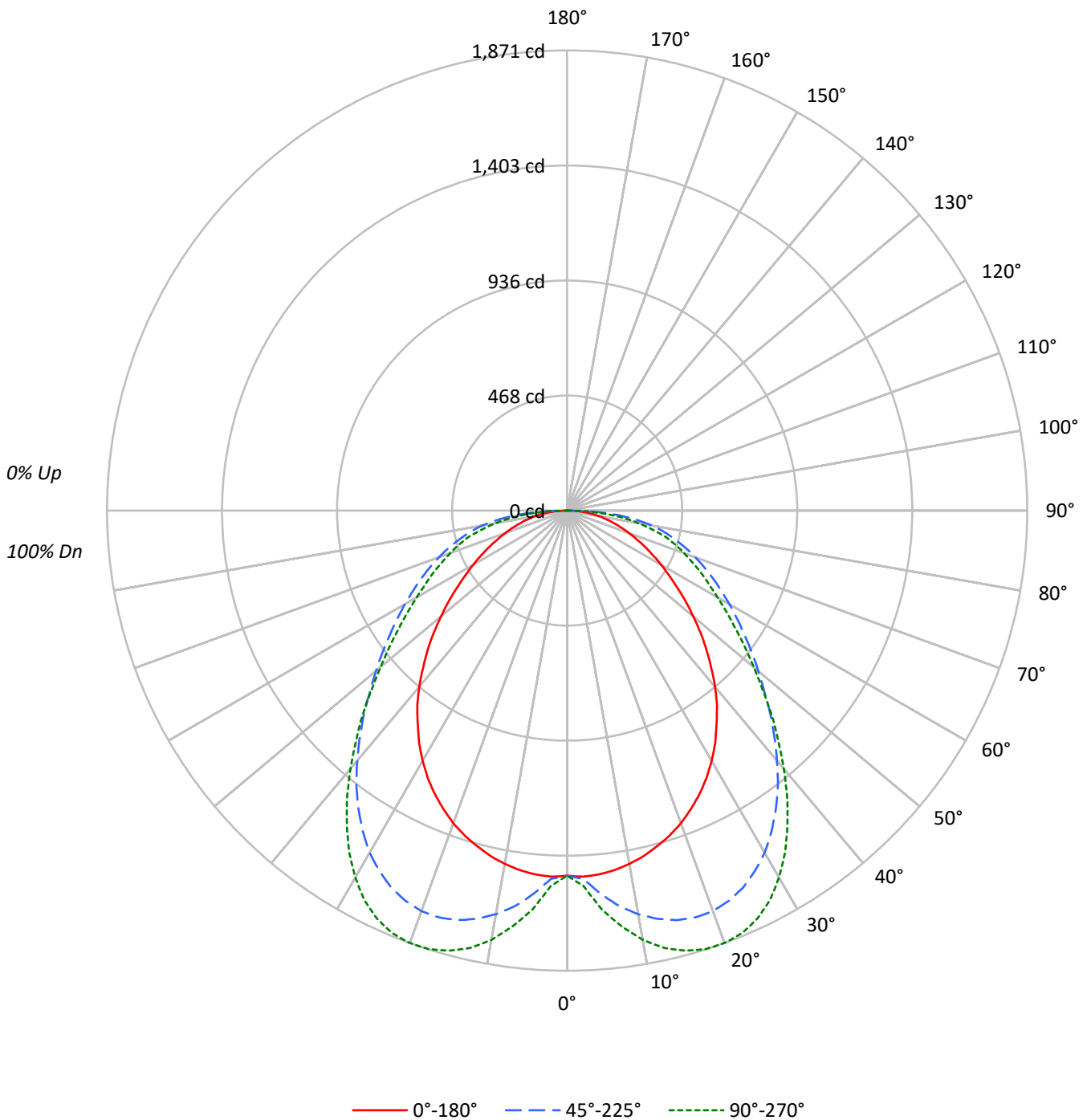
Input Watts (W): 36.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
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	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1998	1998	1998
5°	2005	2112	2199
10°	1993	2276	2421
15°	1968	2402	2580
20°	1937	2481	2679
25°	1889	2511	2717
30°	1826	2495	2676
35°	1739	2430	2565
40°	1643	2331	2406
45°	1526	2223	2239
50°	1400	2123	2073
55°	1284	2062	1958
60°	1188	2048	1901
65°	1111	2086	1917
70°	1056	2180	1992
75°	1023	2365	2161
80°	1034	2717	2280
85°	1082	3169	2482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	3.0
10°-20°	477.8	9.5
20°-30°	754.1	15.1
30°-40°	883.7	17.6
40°-50°	845.4	16.9
50°-60°	720.4	14.4
60°-70°	578.1	11.5
70°-80°	418.4	8.4
80°-90°	178.7	3.6
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°	1383.6	27.6
0°-40°	2267.3	45.3
0°-60°	3833.1	76.5
0°-90°	5008.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5008.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1485	1512	1563	1618	1628	141
15°	1413	1582	1724	1827	1852	398
25°	1273	1517	1692	1806	1830	585
35°	1059	1319	1480	1558	1562	662
45°	802	1037	1168	1184	1177	618
55°	547	780	879	855	835	492
65°	349	587	655	612	602	347
75°	197	416	455	419	416	209
85°	70	209	205	169	161	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1489.9	1491.6	1498.4	1527.5	1527.5
5°	1484.7	1512.1	1563.4	1618.1	1628.4
7.5°	1474.5	1536.0	1621.6	1691.7	1705.4
10°	1459.1	1561.7	1666.0	1751.6	1772.1
12.5°	1438.5	1577.1	1700.2	1797.7	1821.7
15°	1412.9	1582.2	1724.2	1826.8	1852.5
17.5°	1385.5	1580.5	1734.5	1843.9	1869.6
20°	1353.0	1566.8	1732.7	1847.3	1871.3
22.5°	1313.7	1548.0	1717.4	1833.7	1859.3
25°	1272.6	1517.2	1691.7	1806.3	1830.2
27.5°	1226.4	1481.3	1652.4	1763.5	1785.8
30°	1175.1	1435.1	1606.2	1705.4	1722.5
32.5°	1120.4	1380.4	1546.3	1637.0	1648.9
35°	1058.8	1318.8	1479.6	1558.3	1561.7
37.5°	1000.6	1252.1	1407.7	1471.0	1469.3
40°	935.6	1180.3	1327.4	1378.7	1370.1
42.5°	867.2	1108.4	1247.0	1282.9	1270.9
45°	802.2	1036.6	1168.3	1183.7	1176.8
47.5°	735.5	964.7	1086.2	1098.1	1077.6
50°	668.8	899.7	1014.3	1009.2	990.4
52.5°	607.2	839.9	945.9	930.5	910.0
55°	547.4	780.0	879.2	855.3	834.7
57.5°	490.9	727.0	819.3	786.8	768.0
60°	441.3	675.7	761.2	723.5	706.4
62.5°	393.4	629.5	706.4	667.1	650.0
65°	348.9	586.7	655.1	612.4	602.1
67.5°	306.2	543.9	603.8	562.8	550.8
70°	268.5	499.5	554.2	513.2	506.3
72.5°	230.9	458.4	504.6	467.0	461.8
75°	196.7	415.7	455.0	419.1	415.7
77.5°	162.5	369.5	405.4	362.6	354.1
80°	133.4	323.3	350.7	301.0	294.2
82.5°	100.9	266.8	280.5	236.1	232.6
85°	70.1	208.7	205.3	169.3	160.8
87.5°	37.6	124.9	109.5	87.2	83.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)