

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: P183789

Luminaire Tested: **24SR-LD2-48-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183789  
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-LD2-48-C-UNV-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4901.1 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

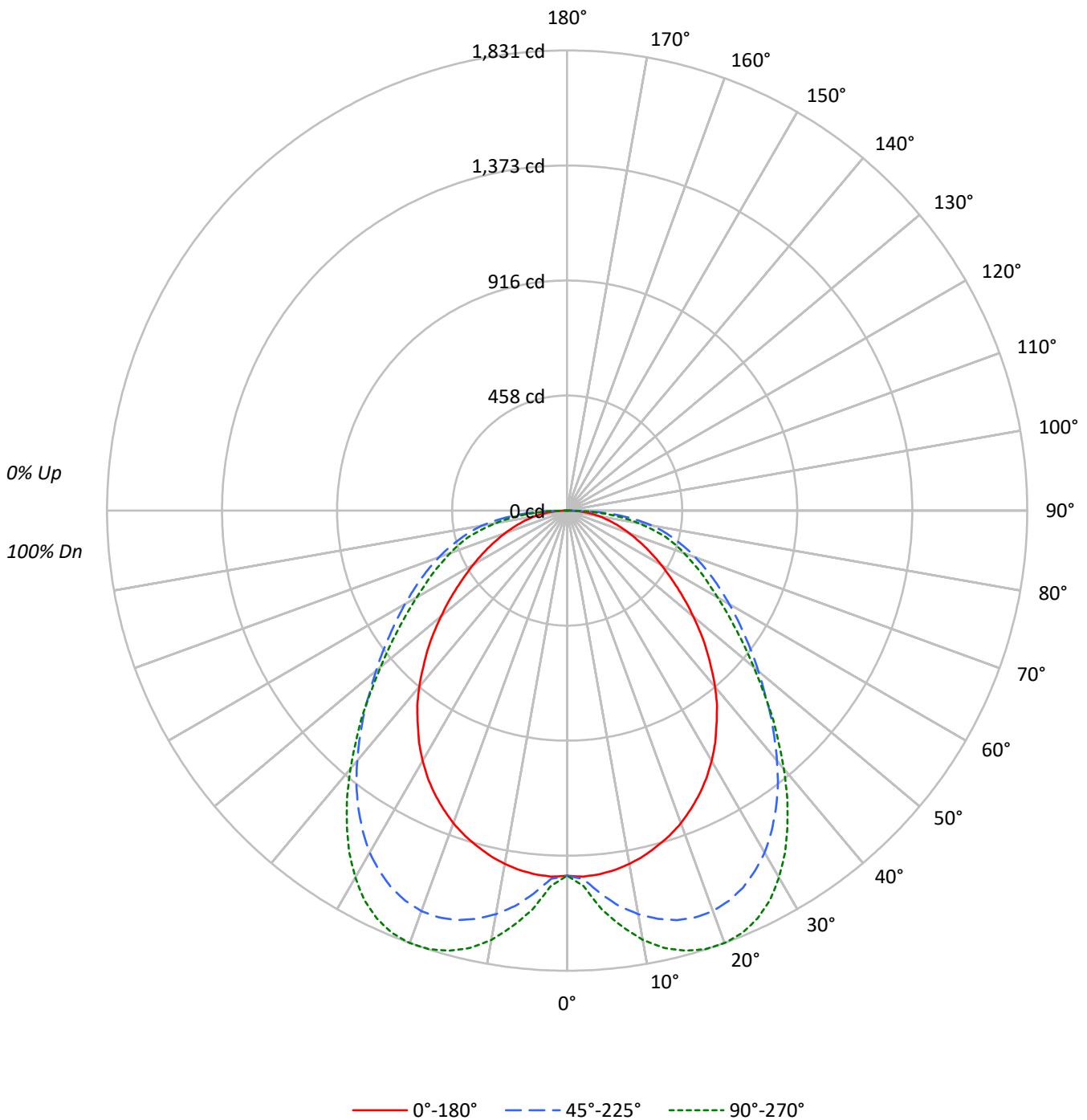
Input Watts (W): 38.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1955	1955	1955
5°	1962	2066	2152
10°	1951	2228	2369
15°	1926	2350	2525
20°	1896	2428	2622
25°	1849	2458	2659
30°	1787	2442	2619
35°	1702	2378	2510
40°	1608	2281	2355
45°	1494	2175	2191
50°	1370	2078	2029
55°	1256	2018	1916
60°	1162	2005	1860
65°	1087	2041	1876
70°	1034	2133	1949
75°	1001	2315	2115
80°	1012	2658	2231
85°	1059	3101	2428



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	3.0
10°-20°	467.6	9.5
20°-30°	737.9	15.1
30°-40°	864.8	17.6
40°-50°	827.3	16.9
50°-60°	705.0	14.4
60°-70°	565.7	11.5
70°-80°	409.5	8.4
80°-90°	174.8	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°	1354.0	27.6
0°-40°	2218.8	45.3
0°-60°	3751.1	76.5
0°-90°	4901.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4901.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1453	1480	1530	1584	1594	138
15°	1383	1548	1687	1788	1813	390
25°	1245	1485	1656	1768	1791	573
35°	1036	1291	1448	1525	1528	648
45°	785	1014	1143	1158	1152	605
55°	536	763	860	837	817	481
65°	342	574	641	599	589	340
75°	192	407	445	410	407	204
85°	69	204	201	166	157	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1458.0	1459.6	1466.3	1494.8	1494.8
5°	1452.9	1479.7	1529.9	1583.5	1593.5
7.5°	1442.9	1503.2	1586.8	1655.5	1668.9
10°	1427.8	1528.3	1630.4	1714.1	1734.2
12.5°	1407.7	1543.3	1663.8	1759.3	1782.7
15°	1382.6	1548.3	1687.3	1787.7	1812.8
17.5°	1355.9	1546.7	1697.3	1804.5	1829.6
20°	1324.0	1533.3	1695.7	1807.8	1831.2
22.5°	1285.5	1514.9	1680.6	1794.4	1819.5
25°	1245.4	1484.7	1655.5	1767.6	1791.1
27.5°	1200.2	1449.6	1617.0	1725.8	1747.5
30°	1150.0	1404.4	1571.8	1668.9	1685.6
32.5°	1096.4	1350.8	1513.2	1601.9	1613.6
35°	1036.1	1290.6	1447.9	1524.9	1528.3
37.5°	979.2	1225.3	1377.6	1439.5	1437.9
40°	915.6	1155.0	1298.9	1349.2	1340.8
42.5°	848.7	1084.7	1220.3	1255.4	1243.7
45°	785.1	1014.4	1143.3	1158.3	1151.6
47.5°	719.8	944.1	1062.9	1074.6	1054.6
50°	654.5	880.5	992.6	987.6	969.2
52.5°	594.2	821.9	925.7	910.6	890.5
55°	535.6	763.3	860.4	836.9	816.9
57.5°	480.4	711.4	801.8	770.0	751.6
60°	431.9	661.2	744.9	708.1	691.3
62.5°	385.0	616.0	691.3	652.8	636.1
65°	341.5	574.1	641.1	599.3	589.2
67.5°	299.6	532.3	590.9	550.7	539.0
70°	262.8	488.8	542.3	502.2	495.5
72.5°	226.0	448.6	493.8	457.0	452.0
75°	192.5	406.8	445.3	410.1	406.8
77.5°	159.0	361.6	396.7	354.9	346.5
80°	130.6	316.4	343.1	294.6	287.9
82.5°	98.8	261.1	274.5	231.0	227.6
85°	68.6	204.2	200.9	165.7	157.3
87.5°	36.8	122.2	107.1	85.4	82.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)