

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: P183837

Luminaire Tested: **24SR-LD2-59-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-59-S-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

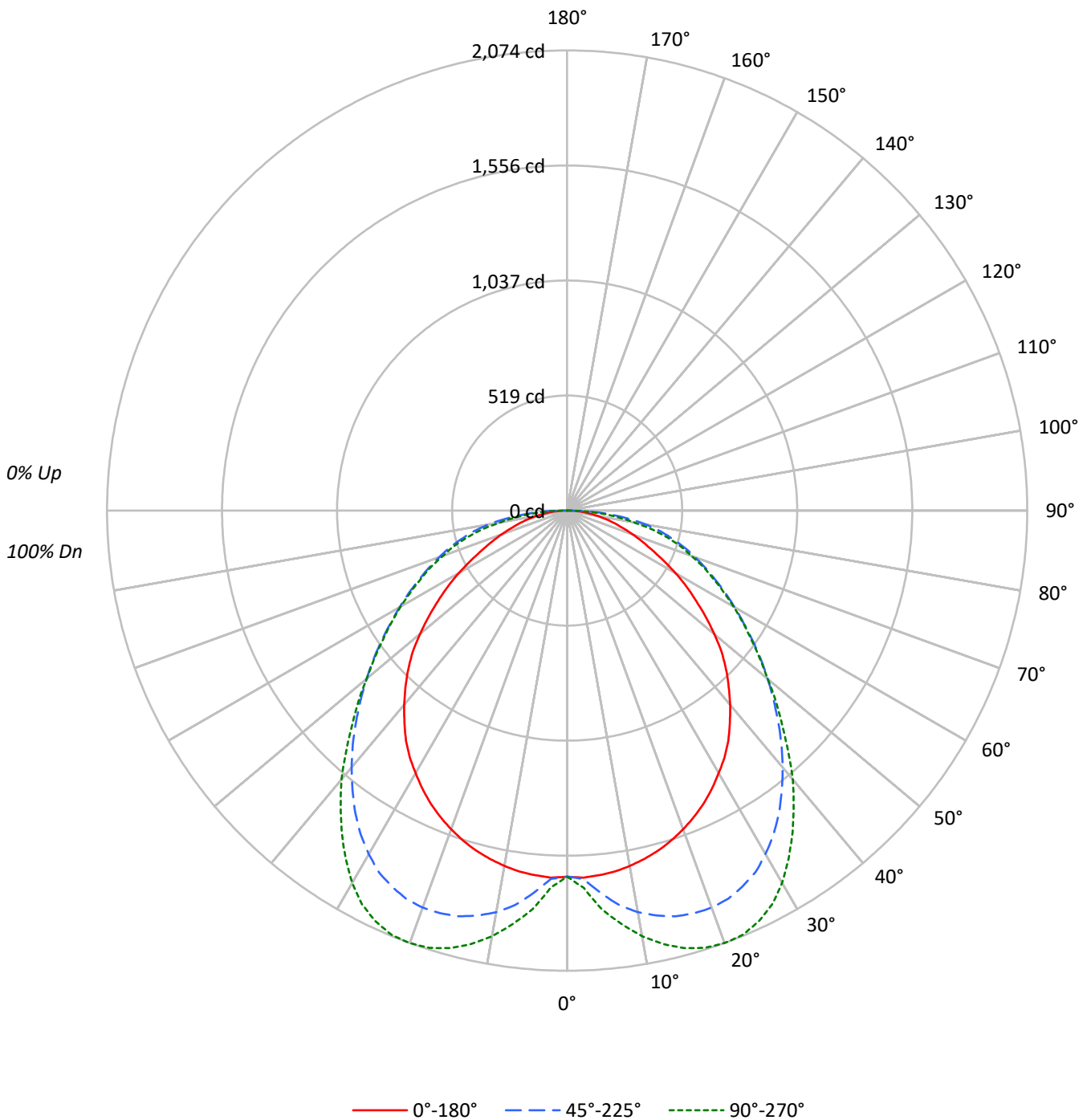
Lumens per Lamp: N/A  
Luminaire Lumens: 5680.2 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.2  
Input Voltage (V): NR  
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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	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	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	2220	2220	2220
5°	2228	2336	2437
10°	2222	2511	2661
15°	2210	2637	2843
20°	2188	2727	2970
25°	2162	2775	3033
30°	2123	2778	3011
35°	2080	2734	2909
40°	2008	2654	2780
45°	1928	2559	2609
50°	1810	2469	2469
55°	1665	2392	2377
60°	1516	2345	2332
65°	1347	2345	2313
70°	1239	2412	2340
75°	1152	2555	2426
80°	1085	2789	2362
85°	1054	3010	2470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	3.0
10°-20°	527.9	9.3
20°-30°	840.6	14.8
30°-40°	1002.5	17.6
40°-50°	987.6	17.4
50°-60°	852.9	15.0
60°-70°	665.6	11.7
70°-80°	456.1	8.0
80°-90°	179.0	3.2
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°	1536.5	27.1
0°-40°	2539.0	44.7
0°-60°	4379.4	77.1
0°-90°	5680.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5680.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1650	1680	1730	1795	1805	157
15°	1586	1755	1893	2011	2041	447
25°	1456	1686	1870	2011	2043	670
35°	1266	1481	1665	1760	1771	790
45°	1013	1198	1345	1383	1371	779
55°	710	900	1020	1023	1013	637
65°	423	633	736	733	726	425
75°	222	430	492	472	467	235
85°	68	207	195	167	160	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1656.3	1657.9	1661.3	1694.6	1701.3
5°	1649.6	1679.6	1729.6	1794.6	1804.6
7.5°	1641.3	1707.9	1792.9	1862.9	1879.5
10°	1626.3	1736.2	1837.9	1926.2	1947.9
12.5°	1607.9	1751.2	1869.5	1972.9	2001.2
15°	1586.3	1754.6	1892.9	2011.2	2041.2
17.5°	1559.6	1749.6	1902.9	2032.8	2066.2
20°	1528.0	1736.2	1904.5	2041.2	2074.5
22.5°	1494.6	1716.3	1894.5	2034.5	2069.5
25°	1456.3	1686.3	1869.5	2011.2	2042.8
27.5°	1413.0	1644.6	1837.9	1971.2	2001.2
30°	1366.3	1596.3	1787.9	1912.9	1937.9
32.5°	1319.7	1543.0	1731.2	1842.9	1857.9
35°	1266.4	1481.3	1664.6	1759.6	1771.2
37.5°	1204.7	1419.7	1589.6	1672.9	1676.3
40°	1143.1	1344.7	1511.3	1573.0	1582.9
42.5°	1078.1	1271.4	1429.7	1481.3	1474.6
45°	1013.1	1198.0	1344.7	1383.0	1371.3
47.5°	944.8	1123.1	1261.4	1286.4	1278.0
50°	864.8	1048.1	1179.7	1193.0	1179.7
52.5°	788.1	976.4	1099.7	1106.4	1094.7
55°	709.8	899.8	1019.8	1023.1	1013.1
57.5°	638.2	828.1	943.1	943.1	938.1
60°	563.2	756.5	871.5	868.1	866.5
62.5°	491.5	693.2	804.8	799.8	794.8
65°	423.2	633.2	736.5	733.2	726.5
67.5°	366.6	576.5	673.2	668.2	664.8
70°	314.9	526.5	613.2	599.9	594.9
72.5°	264.9	476.6	554.9	534.9	536.5
75°	221.6	429.9	491.5	471.6	466.6
77.5°	178.3	381.6	429.9	398.2	391.6
80°	140.0	329.9	359.9	319.9	304.9
82.5°	103.3	273.3	279.9	241.6	231.6
85°	68.3	206.6	195.0	166.6	160.0
87.5°	36.7	121.6	105.0	85.0	80.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)