

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: P183817

Luminaire Tested: **24SR-LD2-39-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183817  
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-LD2-39-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: 3837.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 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

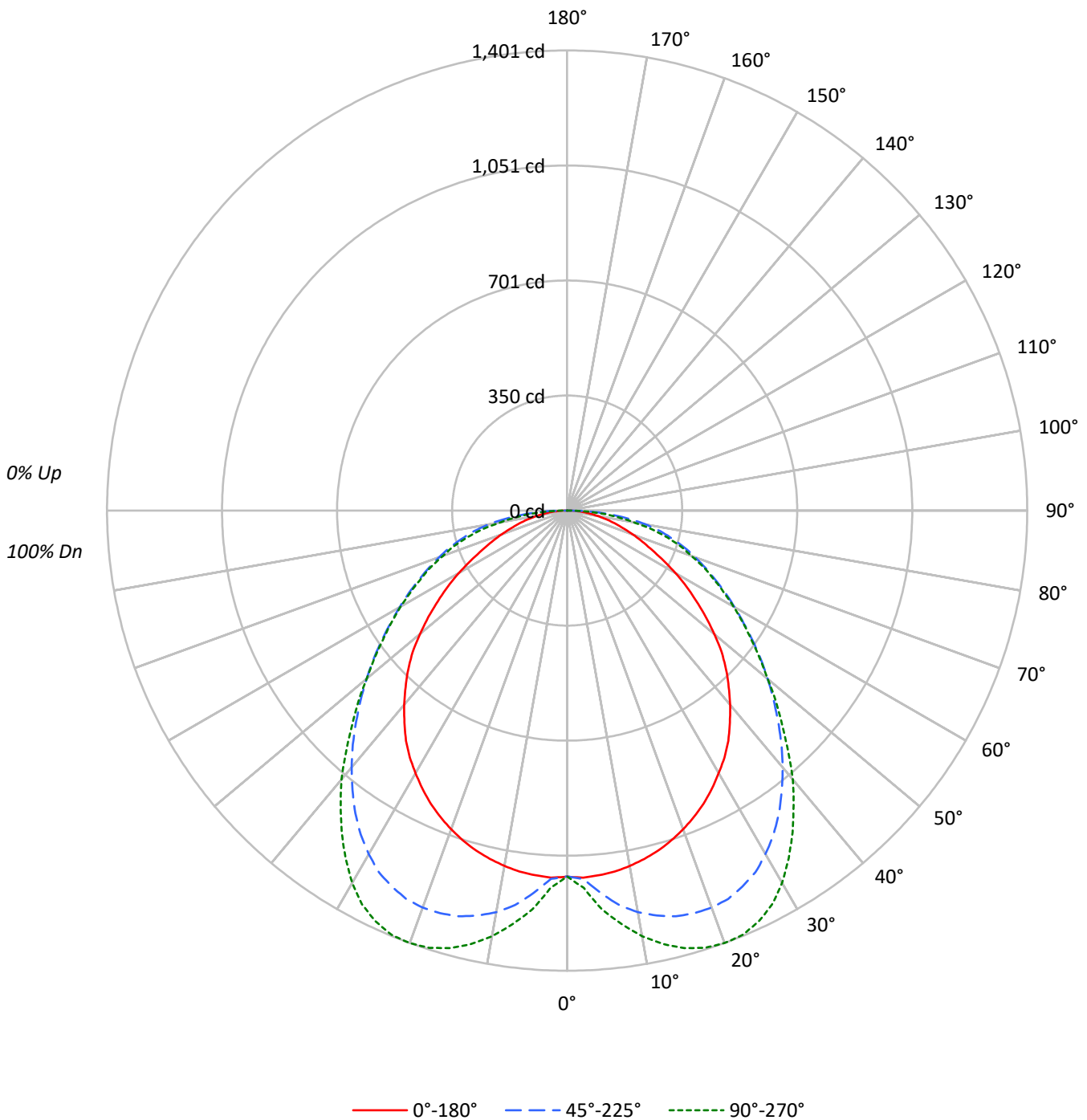
Input Watts (W): 31.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P183817

CATALOG NUMBER: 24SR-LD2-39-S-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183817

CATALOG NUMBER: 24SR-LD2-39-S-UNV-L830-CD1-U

**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°	1499	1499	1499
5°	1505	1578	1646
10°	1501	1696	1798
15°	1493	1781	1921
20°	1478	1842	2006
25°	1461	1875	2049
30°	1434	1876	2034
35°	1405	1847	1965
40°	1356	1793	1878
45°	1302	1728	1763
50°	1223	1668	1668
55°	1125	1616	1605
60°	1024	1584	1575
65°	910	1584	1563
70°	837	1629	1581
75°	778	1726	1639
80°	732	1884	1596
85°	712	2033	1669



TEST NUMBER: P183817

CATALOG NUMBER: 24SR-LD2-39-S-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	3.0
10°-20°	356.6	9.3
20°-30°	567.9	14.8
30°-40°	677.2	17.6
40°-50°	667.1	17.4
50°-60°	576.1	15.0
60°-70°	449.6	11.7
70°-80°	308.1	8.0
80°-90°	120.9	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°	1037.9	27.1
0°-40°	1715.1	44.7
0°-60°	2958.3	77.1
0°-90°	3837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1114	1135	1168	1212	1219	106
15°	1072	1185	1279	1359	1379	302
25°	984	1139	1263	1359	1380	453
35°	855	1001	1124	1189	1196	533
45°	684	809	908	934	926	526
55°	480	608	689	691	684	430
65°	286	428	498	495	491	287
75°	150	290	332	318	315	159
85°	46	140	132	113	108	51
90°	0	0	0	0	0	



TEST NUMBER: P183817

CATALOG NUMBER: 24SR-LD2-39-S-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1118.8	1120.0	1122.2	1144.7	1149.2
5°	1114.3	1134.6	1168.4	1212.2	1219.0
7.5°	1108.7	1153.7	1211.1	1258.4	1269.7
10°	1098.6	1172.9	1241.5	1301.2	1315.8
12.5°	1086.2	1183.0	1262.9	1332.7	1351.8
15°	1071.6	1185.2	1278.7	1358.6	1378.8
17.5°	1053.5	1181.9	1285.4	1373.2	1395.7
20°	1032.2	1172.9	1286.5	1378.8	1401.3
22.5°	1009.6	1159.3	1279.8	1374.3	1398.0
25°	983.8	1139.1	1262.9	1358.6	1380.0
27.5°	954.5	1110.9	1241.5	1331.6	1351.8
30°	923.0	1078.3	1207.7	1292.2	1309.0
32.5°	891.5	1042.3	1169.5	1244.9	1255.0
35°	855.4	1000.6	1124.5	1188.6	1196.5
37.5°	813.8	959.0	1073.8	1130.1	1132.3
40°	772.1	908.3	1020.9	1062.5	1069.3
42.5°	728.2	858.8	965.7	1000.6	996.1
45°	684.4	809.3	908.3	934.2	926.4
47.5°	638.2	758.6	852.1	868.9	863.3
50°	584.2	708.0	796.9	805.9	796.9
52.5°	532.4	659.6	742.9	747.4	739.5
55°	479.5	607.8	688.9	691.1	684.4
57.5°	431.1	559.4	637.1	637.1	633.7
60°	380.4	511.0	588.7	586.4	585.3
62.5°	332.0	468.2	543.7	540.3	536.9
65°	285.9	427.7	497.5	495.3	490.8
67.5°	247.6	389.5	454.7	451.4	449.1
70°	212.7	355.7	414.2	405.2	401.8
72.5°	179.0	321.9	374.8	361.3	362.4
75°	149.7	290.4	332.0	318.5	315.2
77.5°	120.4	257.8	290.4	269.0	264.5
80°	94.5	222.9	243.1	216.1	206.0
82.5°	69.8	184.6	189.1	163.2	156.5
85°	46.1	139.6	131.7	112.6	108.1
87.5°	24.8	82.2	70.9	57.4	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)