

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: P183802

Luminaire Tested: **24SR-LD2-64-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183802  
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-LD2-64-C-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: 6283.7 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

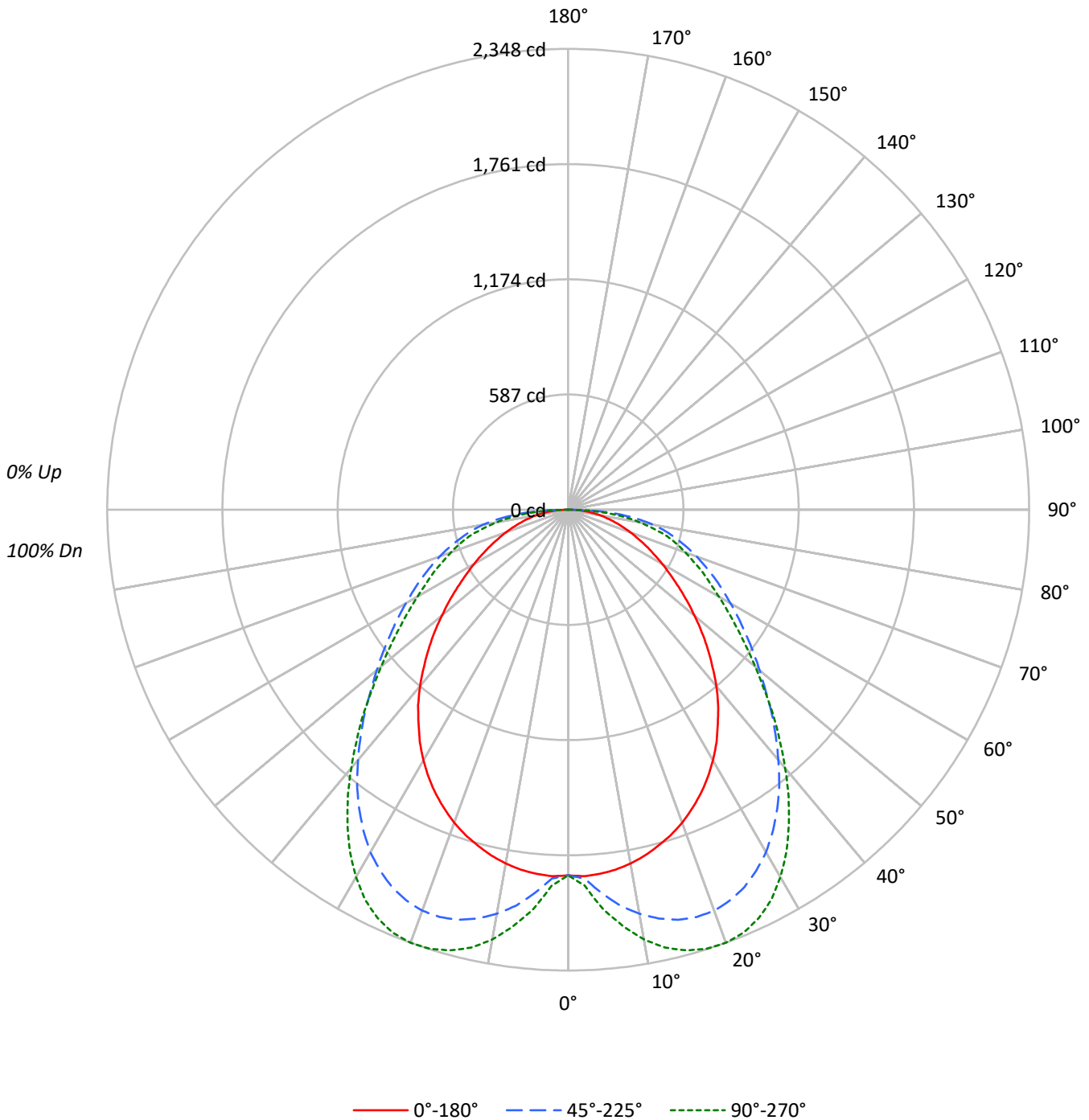
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P183802

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183802

CATALOG NUMBER: 24SR-LD2-64-C-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	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°	2506	2506	2506
5°	2516	2649	2759
10°	2501	2856	3038
15°	2469	3013	3238
20°	2431	3113	3362
25°	2370	3151	3409
30°	2291	3131	3358
35°	2182	3049	3218
40°	2062	2925	3019
45°	1915	2789	2809
50°	1756	2664	2601
55°	1611	2588	2457
60°	1490	2570	2385
65°	1394	2617	2405
70°	1325	2735	2499
75°	1283	2968	2711
80°	1297	3409	2860
85°	1359	3975	3114



TEST NUMBER: P183802

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.4	3.0
10°-20°	599.4	9.5
20°-30°	946.1	15.1
30°-40°	1108.8	17.6
40°-50°	1060.7	16.9
50°-60°	903.8	14.4
60°-70°	725.3	11.5
70°-80°	525.0	8.4
80°-90°	224.2	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°	1735.9	27.6
0°-40°	2844.7	45.3
0°-60°	4809.2	76.5
0°-90°	6283.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6283.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1863	1897	1962	2030	2043	177
15°	1773	1985	2163	2292	2324	500
25°	1597	1904	2122	2266	2296	734
35°	1328	1655	1856	1955	1959	831
45°	1006	1300	1466	1485	1476	776
55°	687	979	1103	1073	1047	617
65°	438	736	822	768	755	436
75°	247	522	571	526	522	262
85°	88	262	258	212	202	94
90°	0	0	0	0	0	



TEST NUMBER: P183802

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1869.2	1871.4	1880.0	1916.4	1916.4
5°	1862.8	1897.1	1961.5	2030.2	2043.1
7.5°	1849.9	1927.2	2034.5	2122.5	2139.6
10°	1830.6	1959.4	2090.3	2197.6	2223.3
12.5°	1804.9	1978.7	2133.2	2255.5	2285.6
15°	1772.7	1985.1	2163.2	2292.0	2324.2
17.5°	1738.3	1983.0	2176.1	2313.5	2345.7
20°	1697.5	1965.8	2174.0	2317.8	2347.8
22.5°	1648.2	1942.2	2154.7	2300.6	2332.8
25°	1596.7	1903.6	2122.5	2266.3	2296.3
27.5°	1538.7	1858.5	2073.1	2212.6	2240.5
30°	1474.4	1800.6	2015.2	2139.6	2161.1
32.5°	1405.7	1731.9	1940.1	2053.8	2068.8
35°	1328.4	1654.6	1856.4	1955.1	1959.4
37.5°	1255.5	1570.9	1766.2	1845.6	1843.5
40°	1173.9	1480.8	1665.4	1729.7	1719.0
42.5°	1088.1	1390.7	1564.5	1609.6	1594.5
45°	1006.5	1300.5	1465.8	1485.1	1476.5
47.5°	922.8	1210.4	1362.8	1377.8	1352.0
50°	839.1	1128.8	1272.6	1266.2	1242.6
52.5°	761.9	1053.7	1186.8	1167.5	1141.7
55°	686.7	978.6	1103.1	1073.0	1047.3
57.5°	615.9	912.1	1028.0	987.2	963.6
60°	553.7	847.7	955.0	907.8	886.3
62.5°	493.6	789.8	886.3	837.0	815.5
65°	437.8	736.1	821.9	768.3	755.4
67.5°	384.1	682.5	757.6	706.1	691.0
70°	336.9	626.7	695.3	643.8	635.2
72.5°	289.7	575.1	633.1	585.9	579.4
75°	246.8	521.5	570.9	525.8	521.5
77.5°	203.9	463.6	508.6	455.0	444.2
80°	167.4	405.6	439.9	377.7	369.1
82.5°	126.6	334.8	352.0	296.2	291.9
85°	88.0	261.8	257.5	212.5	201.7
87.5°	47.2	156.7	137.3	109.5	105.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)