

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: P183804

Luminaire Tested: **24SR-LD2-64-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183804  
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-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

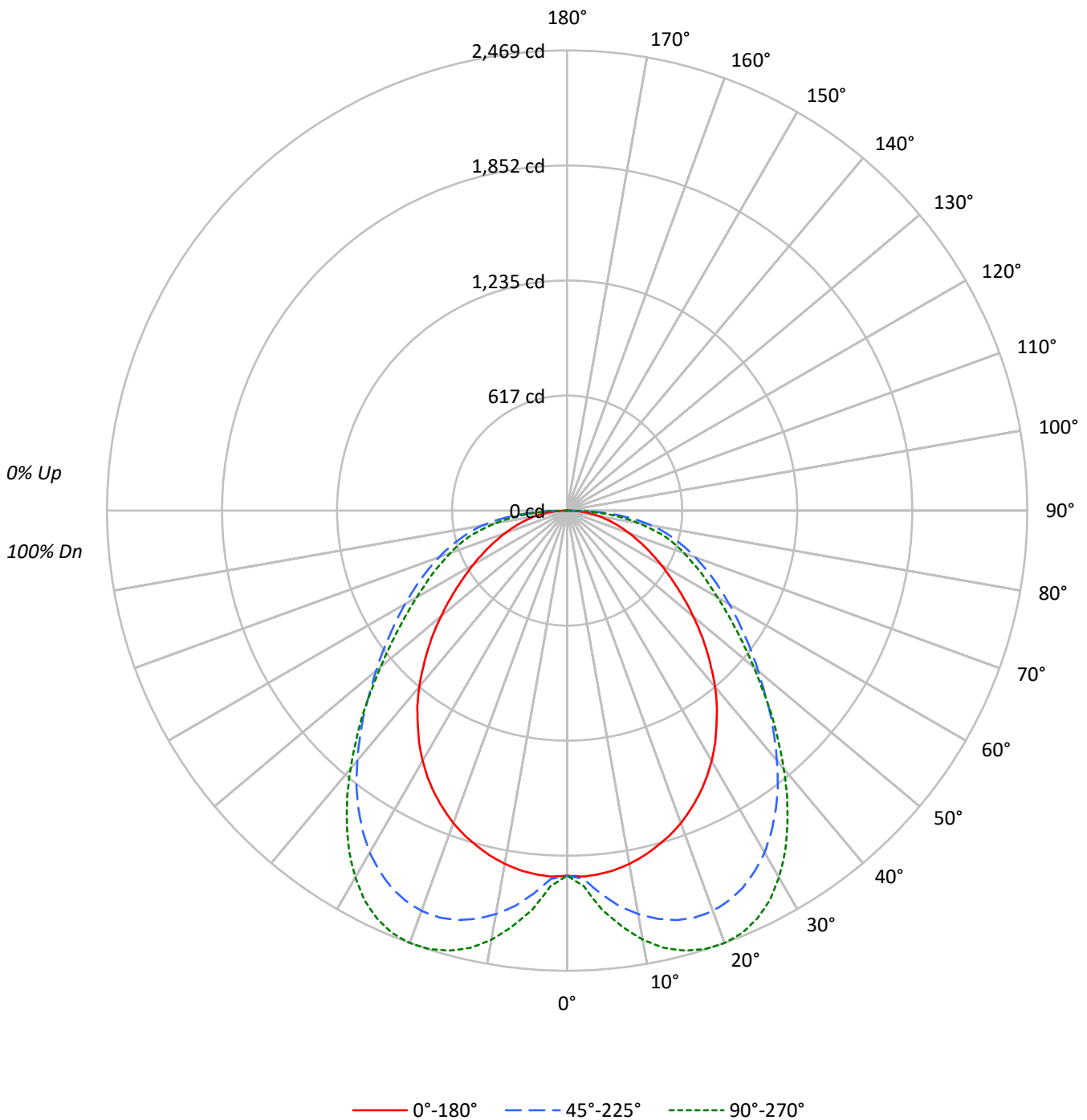
Lumens per Lamp: N/A  
Luminaire Lumens: 6607.5 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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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°	2636	2636	2636
5°	2646	2786	2902
10°	2630	3003	3194
15°	2596	3169	3404
20°	2556	3273	3535
25°	2493	3313	3585
30°	2409	3292	3531
35°	2294	3206	3384
40°	2168	3076	3175
45°	2014	2933	2954
50°	1847	2801	2735
55°	1694	2721	2583
60°	1567	2702	2508
65°	1466	2752	2529
70°	1394	2877	2628
75°	1349	3121	2851
80°	1364	3584	3008
85°	1428	4181	3274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	3.0
10°-20°	630.3	9.5
20°-30°	994.9	15.1
30°-40°	1165.9	17.6
40°-50°	1115.4	16.9
50°-60°	950.4	14.4
60°-70°	762.7	11.5
70°-80°	552.0	8.4
80°-90°	235.7	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°	1825.4	27.6
0°-40°	2991.3	45.3
0°-60°	5057.1	76.5
0°-90°	6607.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6607.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1959	1959	1959	1959	1959	
5°	1959	1995	2063	2135	2148	186
15°	1864	2088	2275	2410	2444	526
25°	1679	2002	2232	2383	2415	772
35°	1397	1740	1952	2056	2060	874
45°	1058	1368	1541	1562	1553	816
55°	722	1029	1160	1128	1101	649
65°	460	774	864	808	794	458
75°	260	548	600	553	548	275
85°	92	275	271	223	212	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1958.8	1958.8	1958.8	1958.8	1958.8
2.5°	1965.6	1967.8	1976.9	2015.2	2015.2
5°	1958.8	1994.9	2062.6	2134.8	2148.4
7.5°	1945.3	2026.5	2139.4	2231.9	2249.9
10°	1925.0	2060.4	2198.0	2310.9	2337.9
12.5°	1897.9	2080.7	2243.2	2371.8	2403.4
15°	1864.0	2087.5	2274.8	2410.2	2444.0
17.5°	1827.9	2085.2	2288.3	2432.7	2466.6
20°	1785.1	2067.1	2286.0	2437.2	2468.8
22.5°	1733.1	2042.3	2265.7	2419.2	2453.0
25°	1679.0	2001.7	2231.9	2383.1	2414.7
27.5°	1618.1	1954.3	2180.0	2326.7	2356.0
30°	1550.4	1893.4	2119.0	2249.9	2272.5
32.5°	1478.1	1821.2	2040.1	2159.7	2175.5
35°	1396.9	1739.9	1952.0	2055.9	2060.4
37.5°	1320.2	1651.9	1857.3	1940.8	1938.5
40°	1234.4	1557.1	1751.2	1818.9	1807.6
42.5°	1144.1	1462.3	1645.1	1692.5	1676.7
45°	1058.4	1367.6	1541.3	1561.6	1552.6
47.5°	970.4	1272.8	1433.0	1448.8	1421.7
50°	882.4	1187.0	1338.2	1331.5	1306.6
52.5°	801.1	1108.0	1248.0	1227.6	1200.6
55°	722.1	1029.1	1159.9	1128.4	1101.3
57.5°	647.7	959.1	1081.0	1038.1	1013.3
60°	582.2	891.4	1004.2	954.6	932.0
62.5°	519.0	830.5	932.0	880.1	857.5
65°	460.4	774.0	864.3	807.9	794.4
67.5°	403.9	717.6	796.6	742.5	726.7
70°	354.3	659.0	731.2	677.0	668.0
72.5°	304.7	604.8	665.7	616.1	609.3
75°	259.5	548.4	600.3	552.9	548.4
77.5°	214.4	487.4	534.8	478.4	467.1
80°	176.0	426.5	462.6	397.2	388.2
82.5°	133.1	352.0	370.1	311.4	306.9
85°	92.5	275.3	270.8	223.4	212.1
87.5°	49.6	164.7	144.4	115.1	110.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)