

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: P183844

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183844  
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-LD2-64-S-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: 6539.2 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

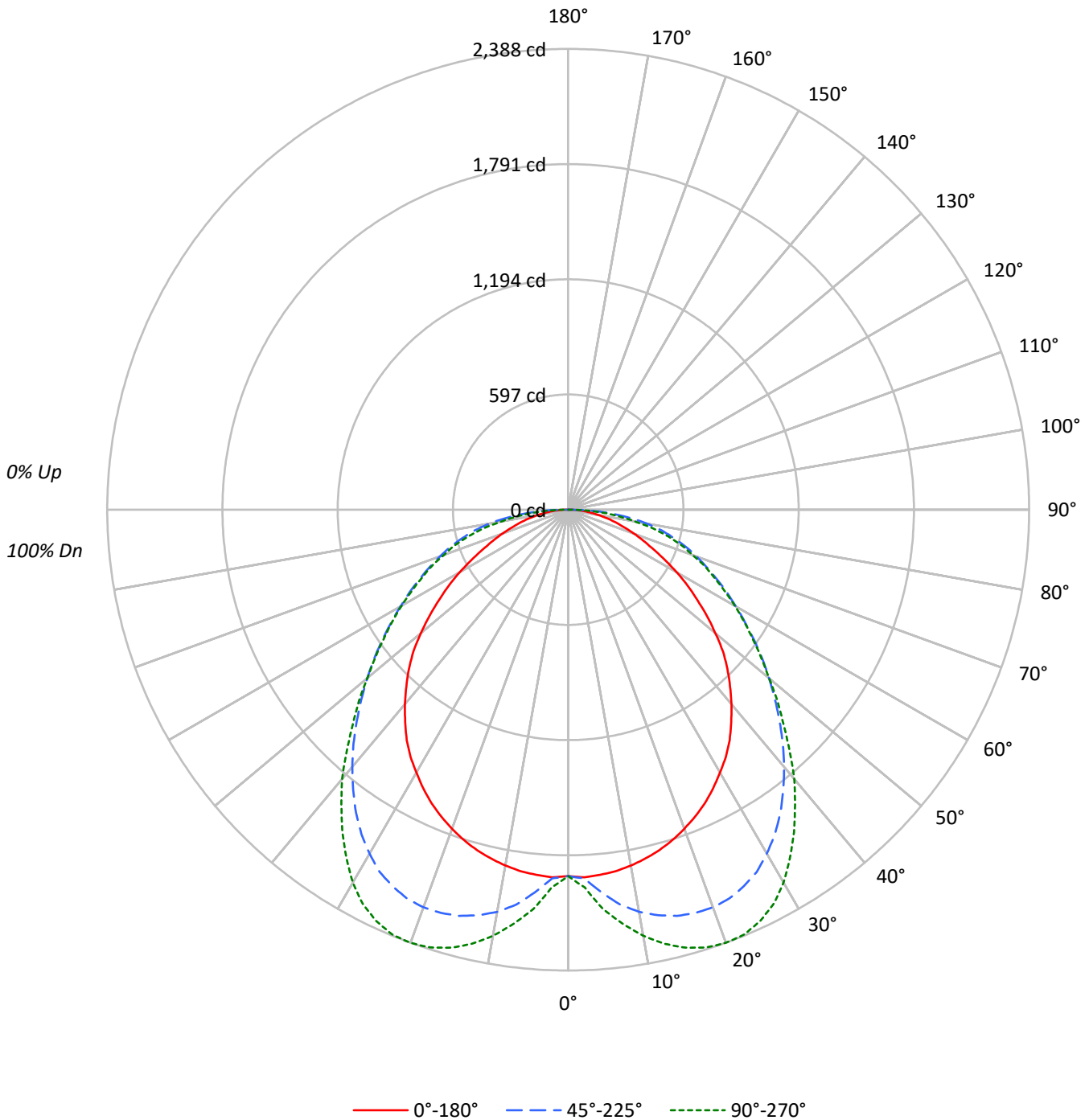
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2555	2555	2555
5°	2565	2689	2806
10°	2558	2891	3064
15°	2544	3036	3273
20°	2519	3139	3420
25°	2489	3195	3491
30°	2444	3198	3466
35°	2395	3148	3349
40°	2311	3056	3201
45°	2219	2946	3004
50°	2084	2843	2843
55°	1917	2754	2736
60°	1745	2700	2684
65°	1551	2699	2663
70°	1426	2777	2694
75°	1326	2942	2792
80°	1248	3210	2720
85°	1213	3464	2844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.4	3.0
10°-20°	607.7	9.3
20°-30°	967.8	14.8
30°-40°	1154.1	17.6
40°-50°	1136.9	17.4
50°-60°	981.9	15.0
60°-70°	766.3	11.7
70°-80°	525.1	8.0
80°-90°	206.1	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°	1768.9	27.1
0°-40°	2923.0	44.7
0°-60°	5041.8	77.1
0°-90°	6539.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6539.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1899	1934	1991	2066	2078	180
15°	1826	2020	2179	2315	2350	515
25°	1677	1941	2152	2315	2352	772
35°	1458	1705	1916	2026	2039	909
45°	1166	1379	1548	1592	1579	897
55°	817	1036	1174	1178	1166	733
65°	487	729	848	844	836	490
75°	255	495	566	543	537	271
85°	79	238	224	192	184	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1899.1	1899.1	1899.1	1899.1	1899.1
2.5°	1906.8	1908.7	1912.5	1950.9	1958.6
5°	1899.1	1933.6	1991.2	2066.0	2077.5
7.5°	1889.5	1966.2	2064.1	2144.6	2163.8
10°	1872.2	1998.8	2115.9	2217.5	2242.5
12.5°	1851.1	2016.1	2152.3	2271.2	2303.9
15°	1826.2	2019.9	2179.2	2315.4	2349.9
17.5°	1795.5	2014.2	2190.7	2340.3	2378.7
20°	1759.1	1998.8	2192.6	2349.9	2388.3
22.5°	1720.7	1975.8	2181.1	2342.2	2382.5
25°	1676.6	1941.3	2152.3	2315.4	2351.8
27.5°	1626.7	1893.3	2115.9	2269.3	2303.9
30°	1573.0	1837.7	2058.3	2202.2	2231.0
32.5°	1519.3	1776.3	1993.1	2121.6	2138.9
35°	1457.9	1705.3	1916.4	2025.7	2039.1
37.5°	1386.9	1634.4	1830.0	1926.0	1929.8
40°	1315.9	1548.0	1739.9	1810.9	1822.4
42.5°	1241.1	1463.6	1645.9	1705.3	1697.7
45°	1166.3	1379.2	1548.0	1592.2	1578.7
47.5°	1087.7	1292.9	1452.1	1480.9	1471.3
50°	995.6	1206.6	1358.1	1373.5	1358.1
52.5°	907.3	1124.1	1266.1	1273.7	1260.3
55°	817.2	1035.9	1174.0	1177.8	1166.3
57.5°	734.7	953.4	1085.7	1085.7	1080.0
60°	648.4	870.9	1003.3	999.4	997.5
62.5°	565.9	798.0	926.5	920.8	915.0
65°	487.2	728.9	847.9	844.0	836.4
67.5°	422.0	663.7	775.0	769.2	765.4
70°	362.6	606.2	705.9	690.6	684.8
72.5°	305.0	548.6	638.8	615.8	617.7
75°	255.1	494.9	565.9	542.9	537.1
77.5°	205.3	439.3	494.9	458.5	450.8
80°	161.1	379.8	414.3	368.3	351.0
82.5°	118.9	314.6	322.3	278.2	266.6
85°	78.6	237.9	224.4	191.8	184.2
87.5°	42.2	140.0	120.9	97.8	92.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)