

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: P183780

Luminaire Tested: **24SR-LD2-39-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183780
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-LD2-39-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4436.7 lumens
Efficiency: N/A
Efficacy: 139.1 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

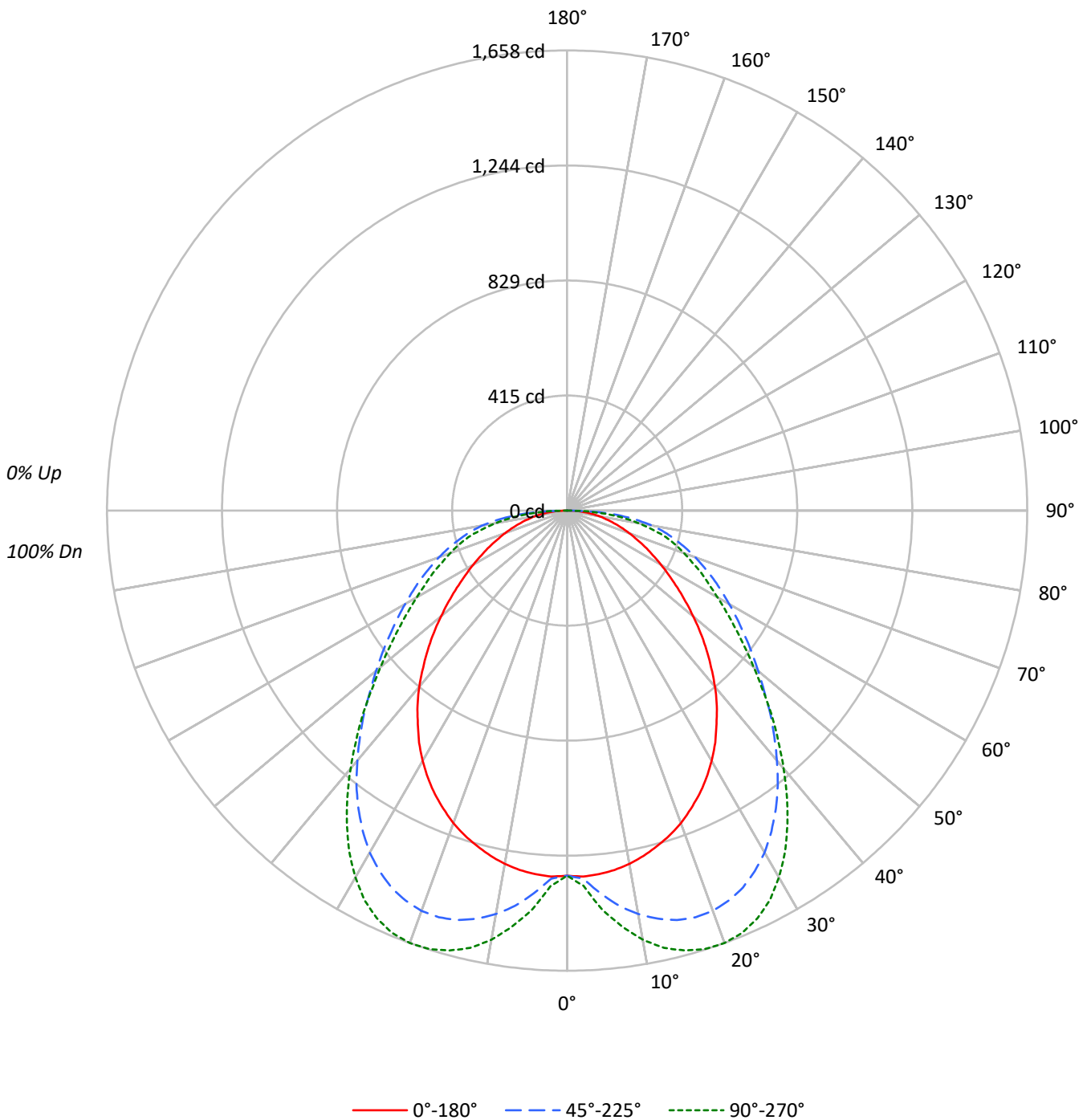
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1770	1770	1770
5°	1776	1871	1948
10°	1766	2016	2145
15°	1743	2128	2286
20°	1716	2198	2374
25°	1674	2225	2407
30°	1617	2211	2371
35°	1541	2153	2272
40°	1456	2065	2132
45°	1352	1969	1984
50°	1240	1881	1836
55°	1137	1827	1735
60°	1052	1815	1684
65°	984	1848	1698
70°	936	1931	1764
75°	906	2096	1914
80°	916	2407	2019
85°	959	2807	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.0
10°-20°	423.2	9.5
20°-30°	668.0	15.1
30°-40°	782.8	17.6
40°-50°	748.9	16.9
50°-60°	638.2	14.4
60°-70°	512.1	11.5
70°-80°	370.7	8.4
80°-90°	158.3	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°	1225.7	27.6
0°-40°	2008.5	45.3
0°-60°	3395.6	76.5
0°-90°	4436.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4436.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1315	1340	1385	1433	1442	125
15°	1252	1402	1527	1618	1641	353
25°	1127	1344	1499	1600	1621	518
35°	938	1168	1311	1380	1383	587
45°	711	918	1035	1049	1042	548
55°	485	691	779	758	740	435
65°	309	520	580	542	533	308
75°	174	368	403	371	368	185
85°	62	185	182	150	142	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1319.8	1321.3	1327.4	1353.1	1353.1
5°	1315.3	1339.5	1385.0	1433.4	1442.5
7.5°	1306.2	1360.7	1436.5	1498.6	1510.7
10°	1292.5	1383.4	1475.9	1551.6	1569.8
12.5°	1274.3	1397.1	1506.2	1592.6	1613.8
15°	1251.6	1401.6	1527.4	1618.3	1641.0
17.5°	1227.4	1400.1	1536.5	1633.5	1656.2
20°	1198.6	1388.0	1535.0	1636.5	1657.7
22.5°	1163.7	1371.3	1521.3	1624.4	1647.1
25°	1127.4	1344.0	1498.6	1600.1	1621.3
27.5°	1086.4	1312.2	1463.8	1562.2	1581.9
30°	1041.0	1271.3	1422.8	1510.7	1525.9
32.5°	992.5	1222.8	1369.8	1450.1	1460.7
35°	938.0	1168.3	1310.7	1380.4	1383.4
37.5°	886.4	1109.2	1247.1	1303.1	1301.6
40°	828.9	1045.5	1175.9	1221.3	1213.7
42.5°	768.2	981.9	1104.6	1136.5	1125.8
45°	710.7	918.3	1034.9	1048.6	1042.5
47.5°	651.6	854.6	962.2	972.8	954.6
50°	592.5	797.0	898.6	894.0	877.3
52.5°	537.9	744.0	837.9	824.3	806.1
55°	484.9	691.0	778.8	757.6	739.5
57.5°	434.9	644.0	725.8	697.0	680.4
60°	390.9	598.5	674.3	641.0	625.8
62.5°	348.5	557.6	625.8	591.0	575.8
65°	309.1	519.7	580.3	542.5	533.4
67.5°	271.2	481.9	534.9	498.5	487.9
70°	237.9	442.5	490.9	454.6	448.5
72.5°	204.6	406.1	447.0	413.7	409.1
75°	174.3	368.2	403.1	371.2	368.2
77.5°	144.0	327.3	359.1	321.2	313.7
80°	118.2	286.4	310.6	266.7	260.6
82.5°	89.4	236.4	248.5	209.1	206.1
85°	62.1	184.9	181.8	150.0	142.4
87.5°	33.3	110.6	97.0	77.3	74.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)