

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: P183827

Luminaire Tested: **24SR-LD2-48-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183827
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-LD2-48-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: 4612.7 lumens
Efficiency: N/A
Efficacy: 120.8 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

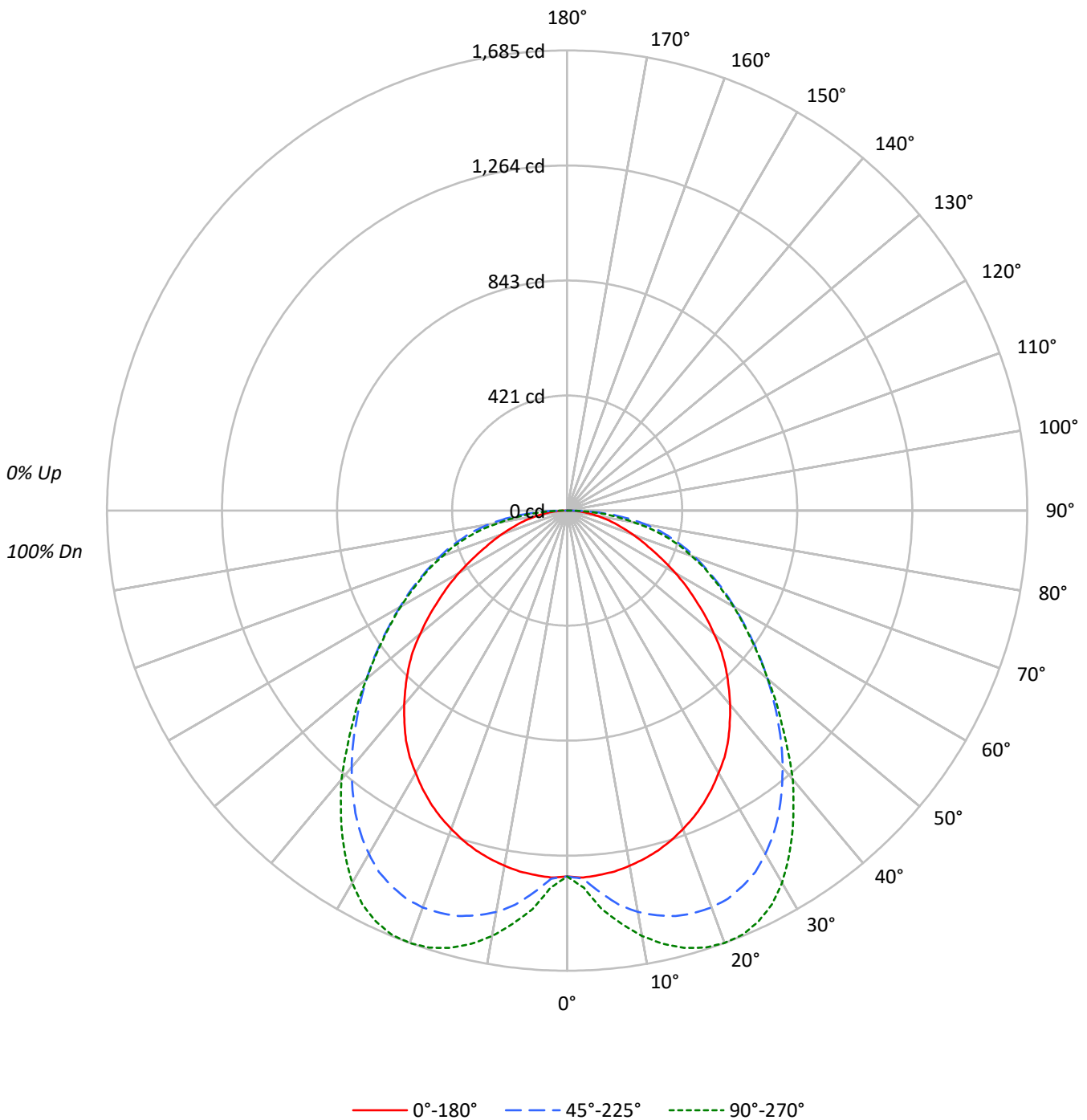
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82				82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68				68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57				57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42				42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1802	1802	1802
5°	1809	1897	1979
10°	1804	2039	2161
15°	1794	2141	2309
20°	1777	2214	2412
25°	1756	2254	2463
30°	1724	2256	2445
35°	1689	2220	2363
40°	1630	2156	2258
45°	1565	2078	2119
50°	1470	2005	2005
55°	1352	1943	1930
60°	1231	1904	1893
65°	1094	1904	1878
70°	1006	1959	1900
75°	936	2075	1970
80°	881	2265	1918
85°	857	2444	2005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.0
10°-20°	428.7	9.3
20°-30°	682.7	14.8
30°-40°	814.1	17.6
40°-50°	802.0	17.4
50°-60°	692.6	15.0
60°-70°	540.5	11.7
70°-80°	370.4	8.0
80°-90°	145.4	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°	1247.8	27.1
0°-40°	2061.8	44.7
0°-60°	3556.4	77.1
0°-90°	4612.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1340	1364	1404	1457	1465	127
15°	1288	1425	1537	1633	1658	363
25°	1183	1369	1518	1633	1659	544
35°	1028	1203	1352	1429	1438	641
45°	823	973	1092	1123	1114	633
55°	576	731	828	831	823	517
65°	344	514	598	595	590	345
75°	180	349	399	383	379	191
85°	56	168	158	135	130	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.6	1339.6	1339.6	1339.6	1339.6
2.5°	1345.0	1346.4	1349.1	1376.1	1381.5
5°	1339.6	1363.9	1404.5	1457.3	1465.4
7.5°	1332.8	1386.9	1456.0	1512.8	1526.3
10°	1320.6	1409.9	1492.5	1564.2	1581.8
12.5°	1305.8	1422.1	1518.2	1602.1	1625.1
15°	1288.2	1424.8	1537.1	1633.2	1657.6
17.5°	1266.5	1420.8	1545.3	1650.8	1677.9
20°	1240.8	1409.9	1546.6	1657.6	1684.6
22.5°	1213.7	1393.7	1538.5	1652.2	1680.6
25°	1182.6	1369.4	1518.2	1633.2	1658.9
27.5°	1147.4	1335.5	1492.5	1600.7	1625.1
30°	1109.6	1296.3	1451.9	1553.4	1573.7
32.5°	1071.7	1253.0	1405.9	1496.5	1508.7
35°	1028.4	1202.9	1351.8	1428.9	1438.4
37.5°	978.3	1152.9	1290.9	1358.5	1361.2
40°	928.2	1092.0	1227.3	1277.3	1285.5
42.5°	875.5	1032.4	1161.0	1202.9	1197.5
45°	822.7	972.9	1092.0	1123.1	1113.6
47.5°	767.2	912.0	1024.3	1044.6	1037.8
50°	702.3	851.1	958.0	968.8	958.0
52.5°	640.0	792.9	893.1	898.5	889.0
55°	576.4	730.7	828.1	830.8	822.7
57.5°	518.2	672.5	765.9	765.9	761.8
60°	457.4	614.3	707.7	705.0	703.6
62.5°	399.2	562.9	653.6	649.5	645.4
65°	343.7	514.2	598.1	595.4	590.0
67.5°	297.7	468.2	546.7	542.6	539.9
70°	255.7	427.6	497.9	487.1	483.1
72.5°	215.1	387.0	450.6	434.4	435.7
75°	180.0	349.1	399.2	382.9	378.9
77.5°	144.8	309.9	349.1	323.4	318.0
80°	113.7	267.9	292.3	259.8	247.6
82.5°	83.9	221.9	227.3	196.2	188.1
85°	55.5	167.8	158.3	135.3	129.9
87.5°	29.8	98.8	85.2	69.0	64.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)