

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: P183829

Luminaire Tested: **24SR-LD2-48-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183829
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-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: 4850.4 lumens
Efficiency: N/A
Efficacy: 127.0 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

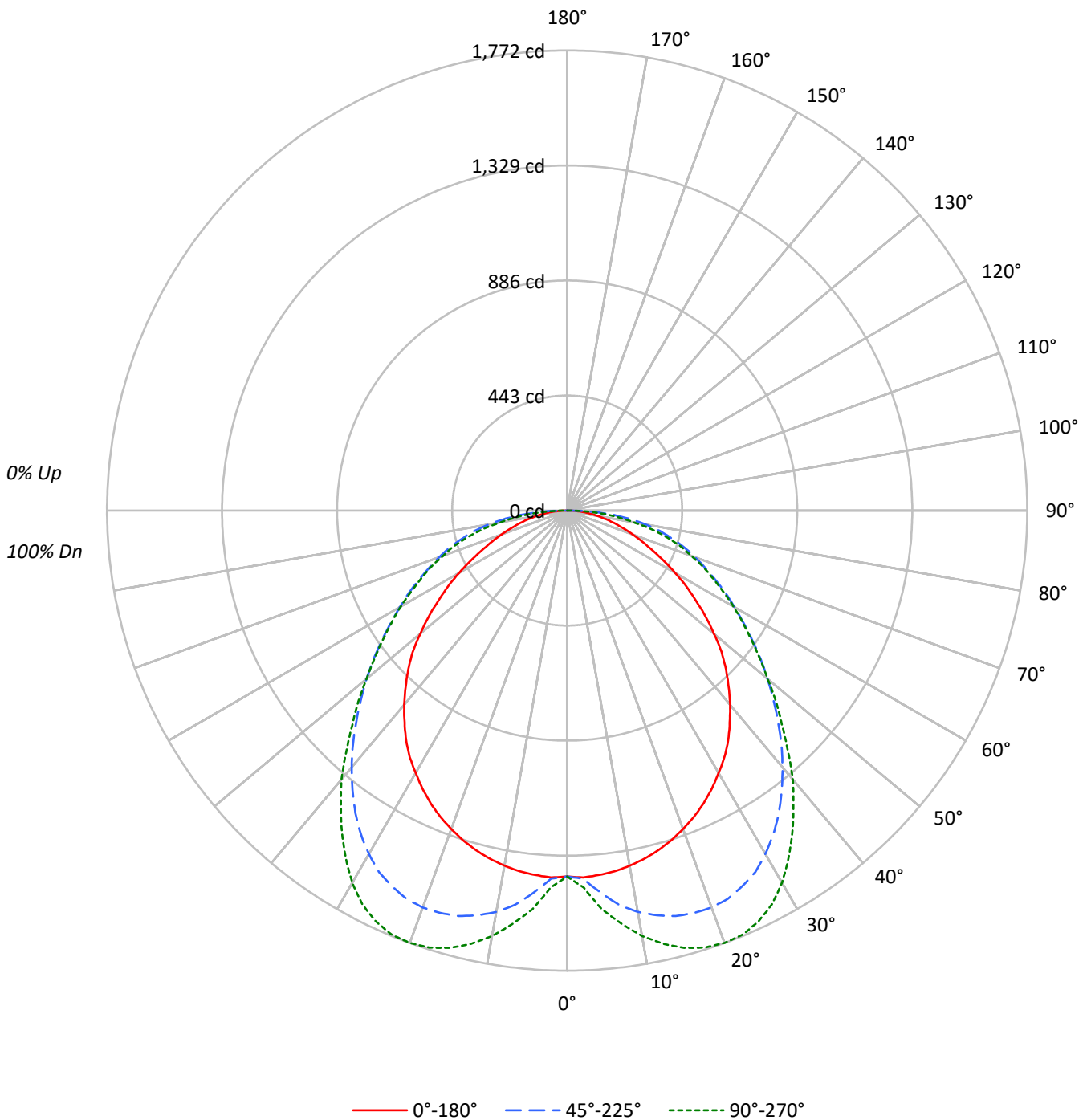
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1895	1895	1895
5°	1902	1995	2081
10°	1897	2144	2272
15°	1887	2252	2428
20°	1868	2329	2537
25°	1846	2370	2590
30°	1813	2372	2571
35°	1776	2335	2484
40°	1714	2267	2374
45°	1646	2185	2228
50°	1546	2109	2109
55°	1422	2043	2029
60°	1294	2003	1991
65°	1151	2002	1975
70°	1058	2060	1998
75°	984	2182	2071
80°	926	2381	2018
85°	900	2570	2109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.0
10°-20°	450.8	9.3
20°-30°	717.8	14.8
30°-40°	856.0	17.6
40°-50°	843.3	17.4
50°-60°	728.3	15.0
60°-70°	568.4	11.7
70°-80°	389.5	8.0
80°-90°	152.8	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°	1312.1	27.1
0°-40°	2168.1	44.7
0°-60°	3739.7	77.1
0°-90°	4850.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4850.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1409	1434	1477	1532	1541	134
15°	1355	1498	1616	1717	1743	382
25°	1244	1440	1596	1717	1744	572
35°	1081	1265	1421	1502	1512	674
45°	865	1023	1148	1181	1171	665
55°	606	768	871	874	865	544
65°	361	541	629	626	620	363
75°	189	367	420	403	398	201
85°	58	176	166	142	137	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.6	1408.6	1408.6	1408.6	1408.6
2.5°	1414.3	1415.8	1418.6	1447.1	1452.7
5°	1408.6	1434.2	1476.9	1532.4	1541.0
7.5°	1401.5	1458.4	1531.0	1590.8	1605.0
10°	1388.7	1482.6	1569.4	1644.8	1663.3
12.5°	1373.1	1495.4	1596.5	1684.7	1708.9
15°	1354.6	1498.3	1616.4	1717.4	1743.0
17.5°	1331.8	1494.0	1624.9	1735.9	1764.4
20°	1304.8	1482.6	1626.3	1743.0	1771.5
22.5°	1276.3	1465.6	1617.8	1737.3	1767.2
25°	1243.6	1439.9	1596.5	1717.4	1744.4
27.5°	1206.6	1404.4	1569.4	1683.2	1708.9
30°	1166.7	1363.1	1526.7	1633.4	1654.8
32.5°	1126.9	1317.6	1478.4	1573.7	1586.5
35°	1081.4	1264.9	1421.4	1502.5	1512.5
37.5°	1028.7	1212.3	1357.4	1428.6	1431.4
40°	976.1	1148.3	1290.5	1343.2	1351.7
42.5°	920.6	1085.6	1220.8	1264.9	1259.2
45°	865.1	1023.0	1148.3	1181.0	1171.0
47.5°	806.8	959.0	1077.1	1098.5	1091.3
50°	738.5	895.0	1007.4	1018.8	1007.4
52.5°	673.0	833.8	939.1	944.8	934.8
55°	606.1	768.3	870.8	873.6	865.1
57.5°	545.0	707.2	805.3	805.3	801.1
60°	480.9	646.0	744.2	741.3	739.9
62.5°	419.7	591.9	687.2	683.0	678.7
65°	361.4	540.7	628.9	626.1	620.4
67.5°	313.0	492.3	574.8	570.6	567.7
70°	268.9	449.6	523.6	512.2	508.0
72.5°	226.2	406.9	473.8	456.7	458.2
75°	189.2	367.1	419.7	402.7	398.4
77.5°	152.2	325.8	367.1	340.1	334.4
80°	119.5	281.7	307.3	273.2	260.4
82.5°	88.2	233.3	239.0	206.3	197.8
85°	58.3	176.4	166.5	142.3	136.6
87.5°	31.3	103.9	89.6	72.6	68.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)