

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: P183788

Luminaire Tested: **24SR-LD2-48-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183788
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-LD2-48-C-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4805.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

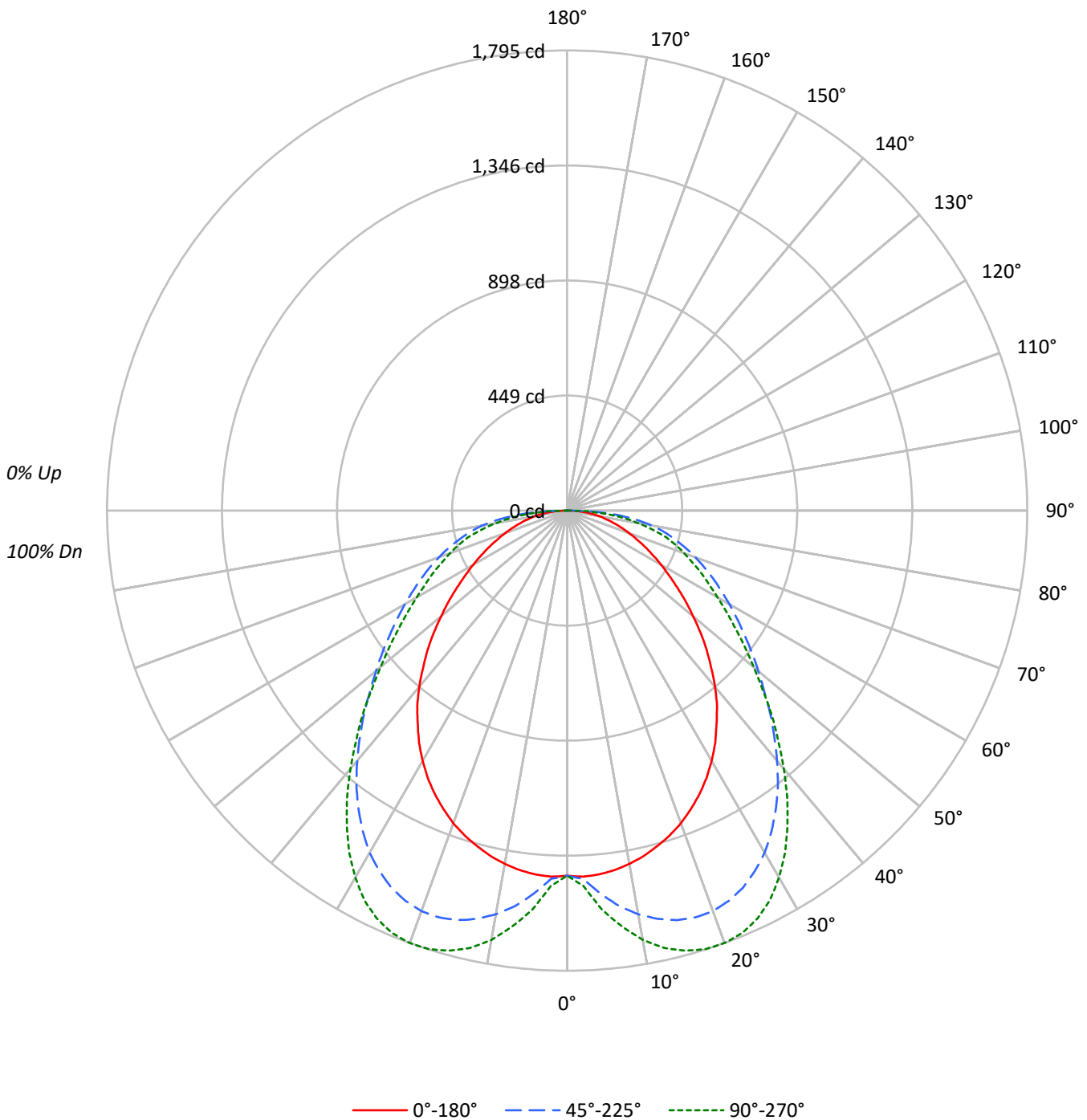
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1917	1917	1917
5°	1924	2026	2110
10°	1912	2184	2323
15°	1888	2304	2476
20°	1859	2380	2571
25°	1813	2409	2607
30°	1752	2394	2568
35°	1668	2332	2461
40°	1577	2237	2309
45°	1465	2133	2148
50°	1343	2037	1989
55°	1232	1979	1879
60°	1139	1965	1824
65°	1066	2001	1839
70°	1013	2092	1911
75°	981	2269	2073
80°	992	2607	2187
85°	1039	3040	2382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.0
10°-20°	458.4	9.5
20°-30°	723.5	15.1
30°-40°	847.8	17.6
40°-50°	811.1	16.9
50°-60°	691.1	14.4
60°-70°	554.6	11.5
70°-80°	401.4	8.4
80°-90°	171.4	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°	1327.4	27.6
0°-40°	2175.3	45.3
0°-60°	3677.5	76.5
0°-90°	4805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1424	1451	1500	1552	1562	135
15°	1356	1518	1654	1753	1777	382
25°	1221	1456	1623	1733	1756	561
35°	1016	1265	1420	1495	1498	635
45°	770	994	1121	1136	1129	593
55°	525	748	844	820	801	472
65°	335	563	628	588	578	333
75°	189	399	436	402	399	200
85°	67	200	197	162	154	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.4	1424.4	1424.4	1424.4	1424.4
2.5°	1429.4	1431.0	1437.6	1465.5	1465.5
5°	1424.4	1450.7	1499.9	1552.5	1562.3
7.5°	1414.6	1473.7	1555.7	1623.0	1636.1
10°	1399.8	1498.3	1598.4	1680.5	1700.1
12.5°	1380.1	1513.1	1631.2	1724.8	1747.7
15°	1355.5	1518.0	1654.2	1752.7	1777.3
17.5°	1329.3	1516.3	1664.0	1769.1	1793.7
20°	1298.1	1503.2	1662.4	1772.4	1795.3
22.5°	1260.3	1485.2	1647.6	1759.2	1783.8
25°	1221.0	1455.6	1623.0	1733.0	1755.9
27.5°	1176.6	1421.2	1585.3	1691.9	1713.3
30°	1127.4	1376.9	1541.0	1636.1	1652.6
32.5°	1074.9	1324.3	1483.5	1570.5	1582.0
35°	1015.8	1265.3	1419.5	1495.0	1498.3
37.5°	960.0	1201.3	1350.6	1411.3	1409.7
40°	897.7	1132.3	1273.5	1322.7	1314.5
42.5°	832.0	1063.4	1196.3	1230.8	1219.3
45°	769.7	994.5	1120.8	1135.6	1129.1
47.5°	705.7	925.6	1042.1	1053.6	1033.9
50°	641.7	863.2	973.2	968.2	950.2
52.5°	582.6	805.8	907.5	892.7	873.0
55°	525.1	748.3	843.5	820.5	800.8
57.5°	471.0	697.5	786.1	754.9	736.8
60°	423.4	648.2	730.3	694.2	677.8
62.5°	377.4	603.9	677.8	640.0	623.6
65°	334.8	562.9	628.5	587.5	577.7
67.5°	293.8	521.9	579.3	539.9	528.4
70°	257.6	479.2	531.7	492.3	485.8
72.5°	221.5	439.8	484.1	448.0	443.1
75°	188.7	398.8	436.5	402.1	398.8
77.5°	155.9	354.5	388.9	347.9	339.7
80°	128.0	310.2	336.4	288.8	282.3
82.5°	96.8	256.0	269.1	226.5	223.2
85°	67.3	200.2	196.9	162.5	154.3
87.5°	36.1	119.8	105.0	83.7	80.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)