

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: P183787

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183787
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-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: 4660.9 lumens
Efficiency: N/A
Efficacy: 122.0 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

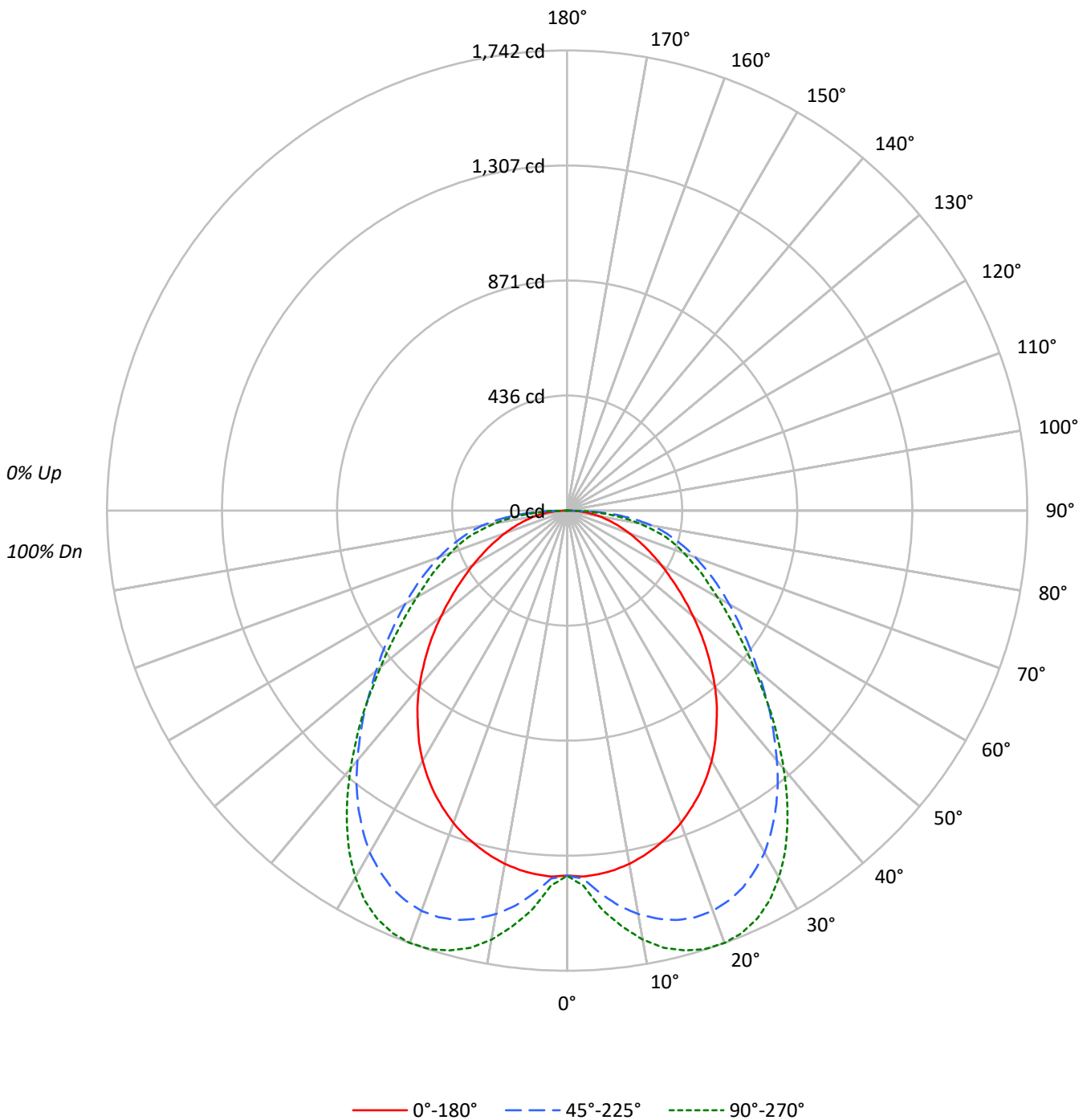
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1859	1859	1859
5°	1866	1965	2047
10°	1855	2118	2253
15°	1832	2235	2401
20°	1803	2309	2494
25°	1758	2337	2529
30°	1699	2322	2490
35°	1618	2262	2387
40°	1529	2170	2240
45°	1421	2069	2084
50°	1303	1976	1929
55°	1195	1919	1822
60°	1105	1906	1769
65°	1034	1941	1784
70°	983	2029	1854
75°	952	2201	2011
80°	962	2528	2122
85°	1008	2949	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.0
10°-20°	444.6	9.5
20°-30°	701.8	15.1
30°-40°	822.4	17.6
40°-50°	786.8	16.9
50°-60°	670.4	14.4
60°-70°	538.0	11.5
70°-80°	389.4	8.4
80°-90°	166.3	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°	1287.6	27.6
0°-40°	2110.0	45.3
0°-60°	3567.2	76.5
0°-90°	4660.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1382	1407	1455	1506	1515	131
15°	1315	1472	1605	1700	1724	371
25°	1184	1412	1574	1681	1703	544
35°	985	1227	1377	1450	1453	616
45°	747	965	1087	1102	1095	575
55°	509	726	818	796	777	458
65°	325	546	610	570	560	323
75°	183	387	423	390	387	194
85°	65	194	191	158	150	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.7	1381.7	1381.7	1381.7	1381.7
2.5°	1386.5	1388.1	1394.4	1421.5	1421.5
5°	1381.7	1407.2	1454.9	1505.9	1515.4
7.5°	1372.2	1429.5	1509.1	1574.3	1587.1
10°	1357.8	1453.3	1550.4	1630.0	1649.1
12.5°	1338.7	1467.7	1582.3	1673.0	1695.3
15°	1314.9	1472.4	1604.6	1700.1	1724.0
17.5°	1289.4	1470.9	1614.1	1716.0	1739.9
20°	1259.1	1458.1	1612.5	1719.2	1741.5
22.5°	1222.5	1440.6	1598.2	1706.4	1730.3
25°	1184.3	1412.0	1574.3	1681.0	1703.3
27.5°	1141.3	1378.5	1537.7	1641.2	1661.9
30°	1093.6	1335.6	1494.7	1587.1	1603.0
32.5°	1042.7	1284.6	1439.0	1523.4	1534.5
35°	985.3	1227.3	1376.9	1450.2	1453.3
37.5°	931.2	1165.2	1310.1	1369.0	1367.4
40°	870.7	1098.4	1235.3	1283.0	1275.1
42.5°	807.1	1031.5	1160.4	1193.9	1182.7
45°	746.6	964.7	1087.2	1101.6	1095.2
47.5°	684.5	897.8	1010.8	1022.0	1002.9
50°	622.4	837.3	944.0	939.2	921.7
52.5°	565.1	781.6	880.3	866.0	846.9
55°	509.4	725.9	818.2	795.9	776.8
57.5°	456.9	676.5	762.5	732.2	714.7
60°	410.7	628.8	708.4	673.3	657.4
62.5°	366.1	585.8	657.4	620.8	604.9
65°	324.7	546.0	609.7	569.9	560.3
67.5°	284.9	506.2	561.9	523.7	512.6
70°	249.9	464.8	515.8	477.6	471.2
72.5°	214.9	426.6	469.6	434.6	429.8
75°	183.1	386.8	423.4	390.0	386.8
77.5°	151.2	343.8	377.3	337.5	329.5
80°	124.2	300.9	326.3	280.2	273.8
82.5°	93.9	248.3	261.1	219.7	216.5
85°	65.3	194.2	191.0	157.6	149.6
87.5°	35.0	116.2	101.9	81.2	78.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)