

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: P183790

Luminaire Tested: **24SR-LD2-48-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183790
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-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: 5333.5 lumens
Efficiency: N/A
Efficacy: 139.6 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

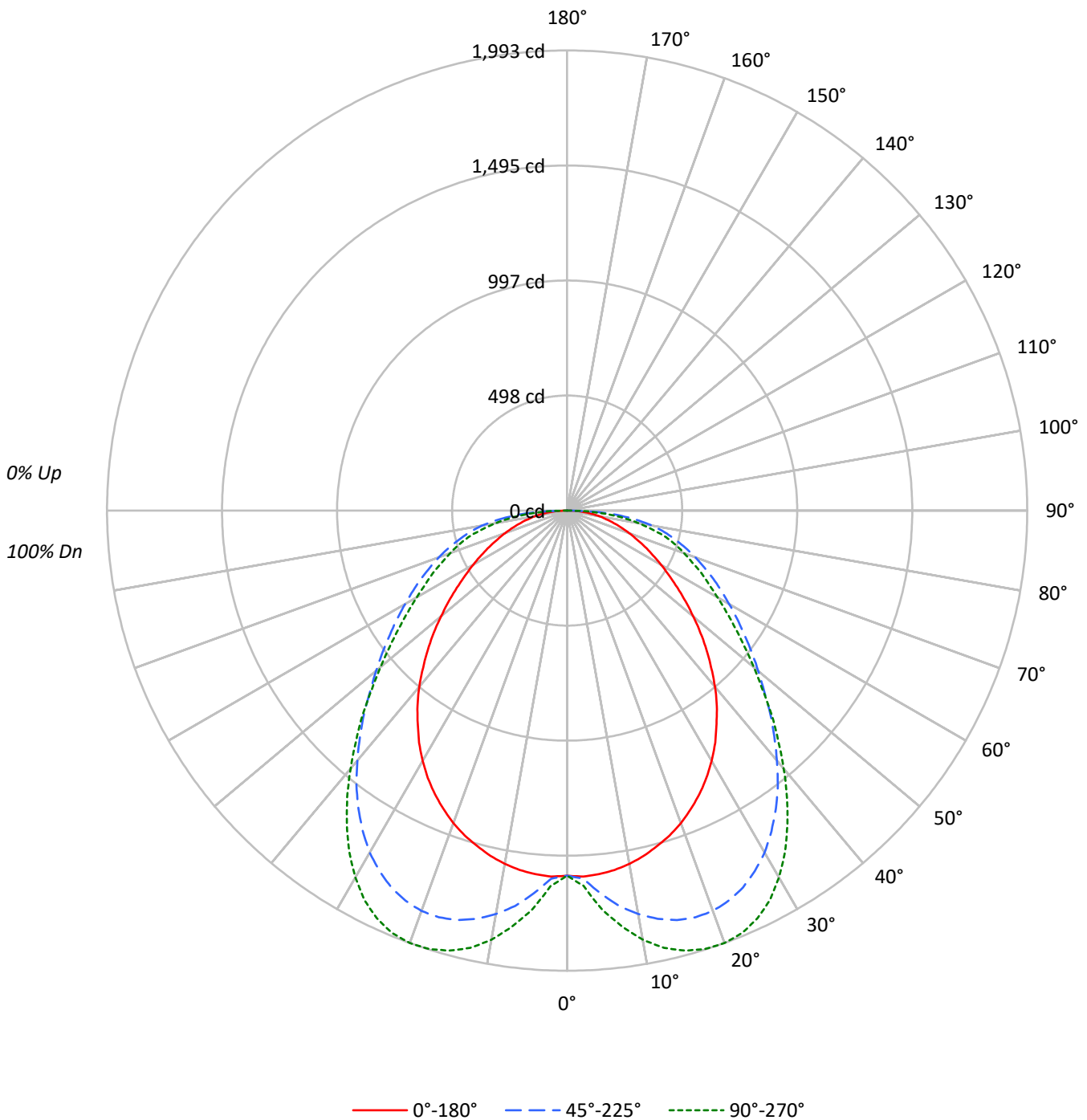
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2127	2127	2127
5°	2135	2249	2342
10°	2123	2424	2578
15°	2096	2558	2748
20°	2063	2642	2853
25°	2012	2674	2894
30°	1944	2657	2850
35°	1852	2588	2732
40°	1750	2483	2563
45°	1626	2367	2385
50°	1491	2261	2208
55°	1367	2196	2085
60°	1265	2181	2024
65°	1183	2221	2041
70°	1125	2322	2121
75°	1089	2519	2301
80°	1101	2893	2428
85°	1153	3375	2643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	3.0
10°-20°	508.8	9.5
20°-30°	803.1	15.1
30°-40°	941.1	17.6
40°-50°	900.3	16.9
50°-60°	767.2	14.4
60°-70°	615.6	11.5
70°-80°	445.6	8.4
80°-90°	190.3	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°	1473.5	27.6
0°-40°	2414.6	45.3
0°-60°	4082.1	76.5
0°-90°	5333.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5333.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1581	1610	1665	1723	1734	150
15°	1505	1685	1836	1946	1973	424
25°	1355	1616	1802	1924	1949	623
35°	1128	1404	1576	1660	1663	705
45°	854	1104	1244	1260	1253	658
55°	583	831	936	911	889	524
65°	372	625	698	652	641	370
75°	210	443	484	446	443	222
85°	75	222	219	180	171	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.1	1581.1	1581.1	1581.1	1581.1
2.5°	1586.6	1588.4	1595.7	1626.7	1626.7
5°	1581.1	1610.3	1664.9	1723.2	1734.2
7.5°	1570.2	1635.8	1726.9	1801.5	1816.1
10°	1553.8	1663.1	1774.2	1865.3	1887.2
12.5°	1532.0	1679.5	1810.7	1914.5	1940.0
15°	1504.6	1685.0	1836.2	1945.5	1972.8
17.5°	1475.5	1683.1	1847.1	1963.7	1991.0
20°	1440.9	1668.6	1845.3	1967.3	1992.8
22.5°	1399.0	1648.5	1828.9	1952.7	1980.1
25°	1355.3	1615.7	1801.5	1923.6	1949.1
27.5°	1306.1	1577.5	1759.7	1878.1	1901.7
30°	1251.4	1528.3	1710.5	1816.1	1834.3
32.5°	1193.1	1470.0	1646.7	1743.3	1756.0
35°	1127.6	1404.4	1575.7	1659.5	1663.1
37.5°	1065.6	1333.4	1499.2	1566.6	1564.7
40°	996.4	1256.9	1413.6	1468.2	1459.1
42.5°	923.5	1180.4	1327.9	1366.2	1353.4
45°	854.3	1103.9	1244.1	1260.5	1253.3
47.5°	783.3	1027.4	1156.7	1169.5	1147.6
50°	712.2	958.2	1080.2	1074.7	1054.7
52.5°	646.7	894.4	1007.3	990.9	969.1
55°	582.9	830.6	936.3	910.8	888.9
57.5°	522.8	774.2	872.5	837.9	817.9
60°	470.0	719.5	810.6	770.5	752.3
62.5°	419.0	670.3	752.3	710.4	692.2
65°	371.6	624.8	697.7	652.1	641.2
67.5°	326.1	579.3	643.0	599.3	586.6
70°	286.0	531.9	590.2	546.5	539.2
72.5°	245.9	488.2	537.4	497.3	491.8
75°	209.5	442.6	484.5	446.3	442.6
77.5°	173.1	393.5	431.7	386.2	377.1
80°	142.1	344.3	373.4	320.6	313.3
82.5°	107.5	284.2	298.7	251.4	247.7
85°	74.7	222.2	218.6	180.3	171.2
87.5°	40.1	133.0	116.6	92.9	89.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)