

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: P183834

Luminaire Tested: **24SR-LD2-53-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183834
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-LD2-53-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: 5368.3 lumens
Efficiency: N/A
Efficacy: 124.6 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

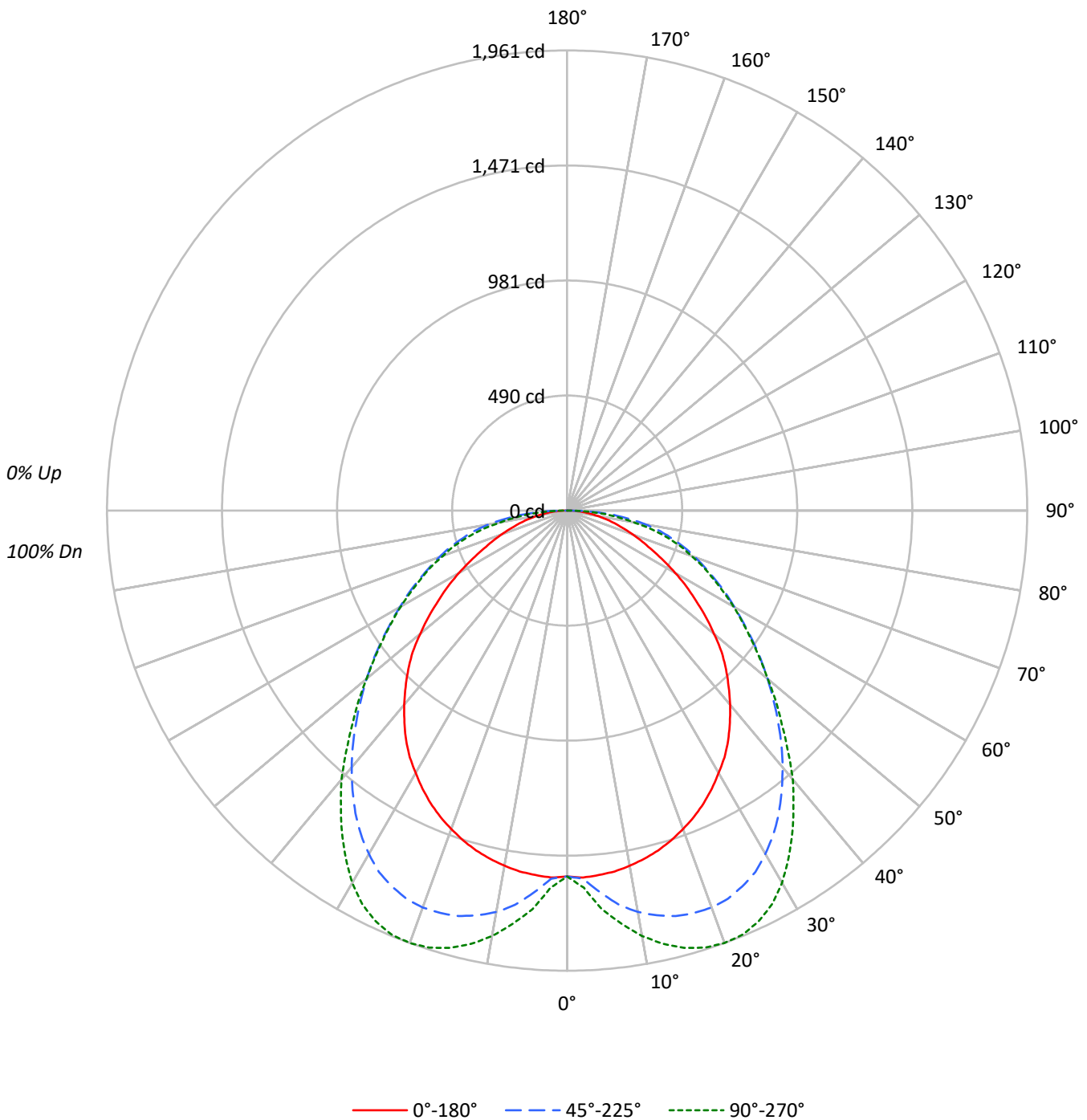
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2098	2098	2098
5°	2106	2208	2303
10°	2100	2373	2515
15°	2088	2492	2687
20°	2068	2577	2807
25°	2043	2623	2866
30°	2006	2625	2845
35°	1966	2584	2750
40°	1897	2509	2628
45°	1822	2418	2466
50°	1711	2334	2334
55°	1574	2261	2246
60°	1432	2216	2204
65°	1273	2216	2186
70°	1171	2280	2212
75°	1089	2415	2292
80°	1025	2636	2233
85°	997	2844	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	3.0
10°-20°	498.9	9.3
20°-30°	794.5	14.8
30°-40°	947.4	17.6
40°-50°	933.3	17.4
50°-60°	806.1	15.0
60°-70°	629.1	11.7
70°-80°	431.1	8.0
80°-90°	169.2	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°	1452.2	27.1
0°-40°	2399.6	44.7
0°-60°	4139.0	77.1
0°-90°	5368.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5368.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1559	1587	1635	1696	1706	148
15°	1499	1658	1789	1901	1929	423
25°	1376	1594	1767	1901	1931	633
35°	1197	1400	1573	1663	1674	746
45°	958	1132	1271	1307	1296	736
55°	671	850	964	967	958	602
65°	400	598	696	693	687	402
75°	209	406	465	446	441	222
85°	65	195	184	158	151	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1565.3	1566.9	1570.1	1601.5	1607.8
5°	1559.0	1587.4	1634.6	1696.0	1705.5
7.5°	1551.2	1614.1	1694.5	1760.6	1776.3
10°	1537.0	1640.9	1737.0	1820.4	1840.9
12.5°	1519.7	1655.1	1766.9	1864.5	1891.3
15°	1499.2	1658.2	1788.9	1900.8	1929.1
17.5°	1474.0	1653.5	1798.4	1921.2	1952.7
20°	1444.1	1640.9	1800.0	1929.1	1960.6
22.5°	1412.6	1622.0	1790.5	1922.8	1955.9
25°	1376.4	1593.7	1766.9	1900.8	1930.7
27.5°	1335.4	1554.3	1737.0	1863.0	1891.3
30°	1291.3	1508.6	1689.7	1807.8	1831.5
32.5°	1247.2	1458.2	1636.2	1741.7	1755.9
35°	1196.8	1400.0	1573.2	1663.0	1674.0
37.5°	1138.6	1341.7	1502.3	1581.1	1584.2
40°	1080.3	1270.8	1428.3	1486.6	1496.0
42.5°	1018.9	1201.6	1351.2	1400.0	1393.7
45°	957.5	1132.3	1270.8	1307.1	1296.0
47.5°	892.9	1061.4	1192.1	1215.7	1207.9
50°	817.3	990.5	1114.9	1127.5	1114.9
52.5°	744.9	922.8	1039.4	1045.7	1034.6
55°	670.9	850.4	963.8	966.9	957.5
57.5°	603.1	782.7	891.3	891.3	886.6
60°	532.3	714.9	823.6	820.5	818.9
62.5°	464.6	655.1	760.6	755.9	751.2
65°	400.0	598.4	696.1	692.9	686.6
67.5°	346.5	544.9	636.2	631.5	628.3
70°	297.6	497.6	579.5	566.9	562.2
72.5°	250.4	450.4	524.4	505.5	507.1
75°	209.4	406.3	464.6	445.7	440.9
77.5°	168.5	360.6	406.3	376.4	370.1
80°	132.3	311.8	340.2	302.4	288.2
82.5°	97.6	258.3	264.6	228.3	218.9
85°	64.6	195.3	184.2	157.5	151.2
87.5°	34.6	115.0	99.2	80.3	75.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)