

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: P183832

Luminaire Tested: **24SR-LD2-53-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183832
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-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: 5105.1 lumens
Efficiency: N/A
Efficacy: 118.4 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

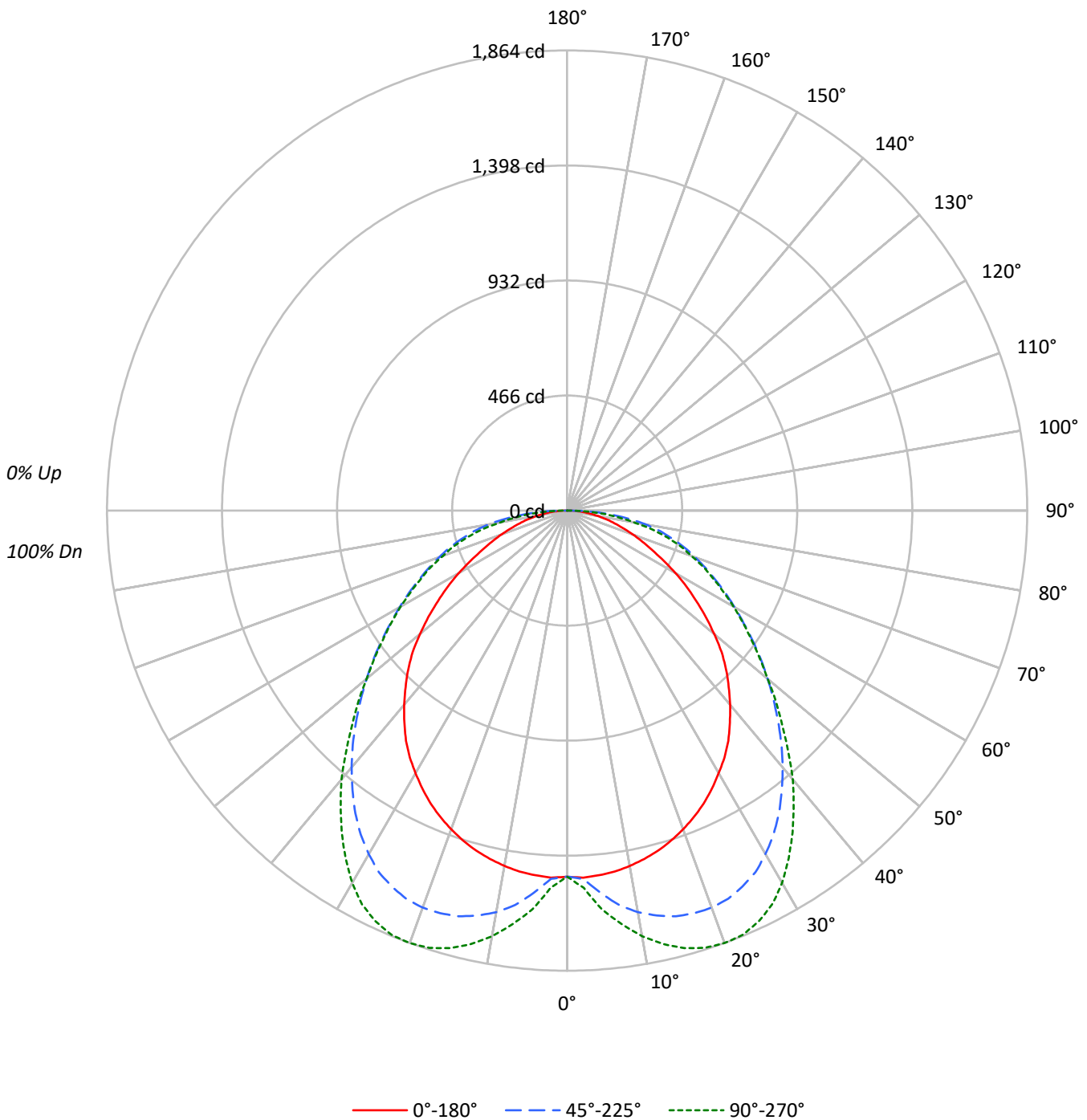
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1995	1995	1995
5°	2002	2100	2191
10°	1997	2257	2392
15°	1986	2370	2555
20°	1966	2451	2670
25°	1943	2495	2726
30°	1908	2497	2706
35°	1870	2457	2615
40°	1804	2386	2499
45°	1733	2300	2345
50°	1627	2219	2219
55°	1497	2150	2136
60°	1362	2108	2095
65°	1211	2107	2079
70°	1113	2168	2103
75°	1036	2297	2180
80°	975	2507	2124
85°	948	2705	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	3.0
10°-20°	474.4	9.3
20°-30°	755.5	14.8
30°-40°	901.0	17.6
40°-50°	887.6	17.4
50°-60°	766.5	15.0
60°-70°	598.2	11.7
70°-80°	409.9	8.0
80°-90°	160.9	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°	1381.0	27.1
0°-40°	2282.0	44.7
0°-60°	3936.1	77.1
0°-90°	5105.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5105.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1483	1510	1554	1613	1622	141
15°	1426	1577	1701	1808	1834	402
25°	1309	1516	1680	1808	1836	602
35°	1138	1331	1496	1581	1592	710
45°	910	1077	1208	1243	1232	700
55°	638	809	916	920	910	572
65°	380	569	662	659	653	382
75°	199	386	442	424	419	211
85°	61	186	175	150	144	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1488.6	1490.1	1493.1	1523.0	1529.0
5°	1482.6	1509.6	1554.5	1612.9	1621.9
7.5°	1475.1	1535.0	1611.4	1674.3	1689.3
10°	1461.6	1560.5	1651.8	1731.2	1750.7
12.5°	1445.2	1574.0	1680.3	1773.1	1798.6
15°	1425.7	1577.0	1701.3	1807.6	1834.5
17.5°	1401.7	1572.5	1710.2	1827.0	1857.0
20°	1373.3	1560.5	1711.7	1834.5	1864.5
22.5°	1343.3	1542.5	1702.7	1828.5	1860.0
25°	1308.9	1515.6	1680.3	1807.6	1836.0
27.5°	1269.9	1478.1	1651.8	1771.6	1798.6
30°	1228.0	1434.7	1606.9	1719.2	1741.7
32.5°	1186.1	1386.8	1556.0	1656.3	1669.8
35°	1138.2	1331.3	1496.1	1581.4	1591.9
37.5°	1082.8	1275.9	1428.7	1503.6	1506.6
40°	1027.3	1208.5	1358.3	1413.7	1422.7
42.5°	968.9	1142.7	1284.9	1331.3	1325.4
45°	910.5	1076.8	1208.5	1243.0	1232.5
47.5°	849.1	1009.4	1133.7	1156.1	1148.6
50°	777.2	942.0	1060.3	1072.3	1060.3
52.5°	708.4	877.6	988.4	994.4	983.9
55°	638.0	808.7	916.5	919.5	910.5
57.5°	573.6	744.3	847.6	847.6	843.1
60°	506.2	679.9	783.2	780.2	778.7
62.5°	441.8	623.0	723.3	718.8	714.3
65°	380.4	569.1	661.9	658.9	652.9
67.5°	329.5	518.2	605.0	600.5	597.5
70°	283.0	473.2	551.1	539.1	534.6
72.5°	238.1	428.3	498.7	480.7	482.2
75°	199.2	386.4	441.8	423.8	419.3
77.5°	160.2	342.9	386.4	357.9	351.9
80°	125.8	296.5	323.5	287.5	274.1
82.5°	92.9	245.6	251.6	217.1	208.2
85°	61.4	185.7	175.2	149.8	143.8
87.5°	32.9	109.3	94.3	76.4	71.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)