

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: P183793

Luminaire Tested: **24SR-LD2-53-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183793
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-LD2-53-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: 5318.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

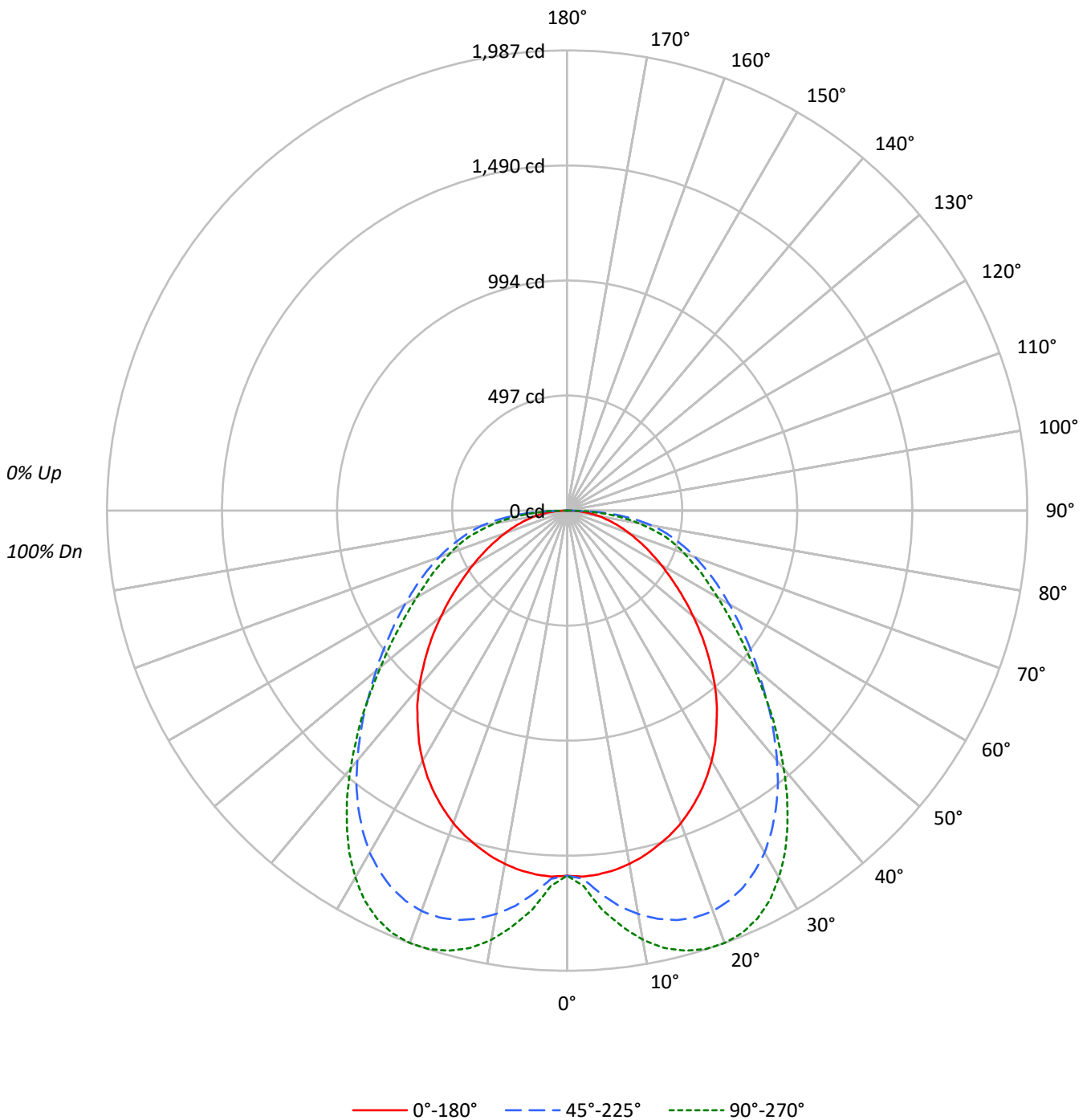
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2121	2121	2121
5°	2129	2242	2335
10°	2117	2417	2571
15°	2090	2550	2740
20°	2057	2634	2845
25°	2006	2667	2885
30°	1939	2650	2842
35°	1847	2581	2724
40°	1745	2475	2555
45°	1621	2360	2378
50°	1487	2255	2201
55°	1363	2190	2079
60°	1261	2175	2019
65°	1180	2215	2035
70°	1122	2315	2115
75°	1086	2511	2295
80°	1098	2885	2421
85°	1150	3365	2635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	3.0
10°-20°	507.3	9.5
20°-30°	800.7	15.1
30°-40°	938.4	17.6
40°-50°	897.7	16.9
50°-60°	764.9	14.4
60°-70°	613.8	11.5
70°-80°	444.3	8.4
80°-90°	189.7	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°	1469.2	27.6
0°-40°	2407.5	45.3
0°-60°	4070.2	76.5
0°-90°	5318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1576	1606	1660	1718	1729	150
15°	1500	1680	1831	1940	1967	423
25°	1351	1611	1796	1918	1943	621
35°	1124	1400	1571	1655	1658	703
45°	852	1101	1240	1257	1250	656
55°	581	828	934	908	886	522
65°	370	623	696	650	639	369
75°	209	441	483	445	441	222
85°	74	222	218	180	171	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1582.0	1583.8	1591.1	1621.9	1621.9
5°	1576.5	1605.6	1660.1	1718.2	1729.1
7.5°	1565.6	1631.0	1721.8	1796.3	1810.8
10°	1549.3	1658.3	1769.1	1859.9	1881.7
12.5°	1527.5	1674.6	1805.4	1908.9	1934.3
15°	1500.2	1680.1	1830.8	1939.8	1967.0
17.5°	1471.2	1678.2	1841.7	1957.9	1985.2
20°	1436.7	1663.7	1839.9	1961.6	1987.0
22.5°	1394.9	1643.7	1823.5	1947.0	1974.3
25°	1351.3	1611.0	1796.3	1918.0	1943.4
27.5°	1302.3	1572.9	1754.5	1872.6	1896.2
30°	1247.8	1523.9	1705.5	1810.8	1829.0
32.5°	1189.7	1465.7	1641.9	1738.2	1750.9
35°	1124.3	1400.3	1571.1	1654.6	1658.3
37.5°	1062.5	1329.5	1494.8	1562.0	1560.2
40°	993.5	1253.2	1409.4	1463.9	1454.8
42.5°	920.9	1176.9	1324.1	1362.2	1349.5
45°	851.8	1100.7	1240.5	1256.9	1249.6
47.5°	781.0	1024.4	1153.3	1166.0	1144.3
50°	710.2	955.4	1077.1	1071.6	1051.6
52.5°	644.8	891.8	1004.4	988.1	966.3
55°	581.2	828.2	933.6	908.1	886.3
57.5°	521.3	771.9	870.0	835.5	815.5
60°	468.6	717.4	808.2	768.3	750.1
62.5°	417.7	668.4	750.1	708.3	690.2
65°	370.5	623.0	695.6	650.2	639.3
67.5°	325.1	577.6	641.1	597.6	584.8
70°	285.2	530.4	588.5	544.9	537.6
72.5°	245.2	486.8	535.8	495.8	490.4
75°	208.9	441.4	483.1	445.0	441.4
77.5°	172.5	392.3	430.5	385.1	376.0
80°	141.7	343.3	372.3	319.7	312.4
82.5°	107.2	283.3	297.9	250.6	247.0
85°	74.5	221.6	218.0	179.8	170.7
87.5°	40.0	132.6	116.2	92.6	89.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)