

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: P183803

Luminaire Tested: **24SR-LD2-64-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183803
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-LD2-64-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: 6478.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

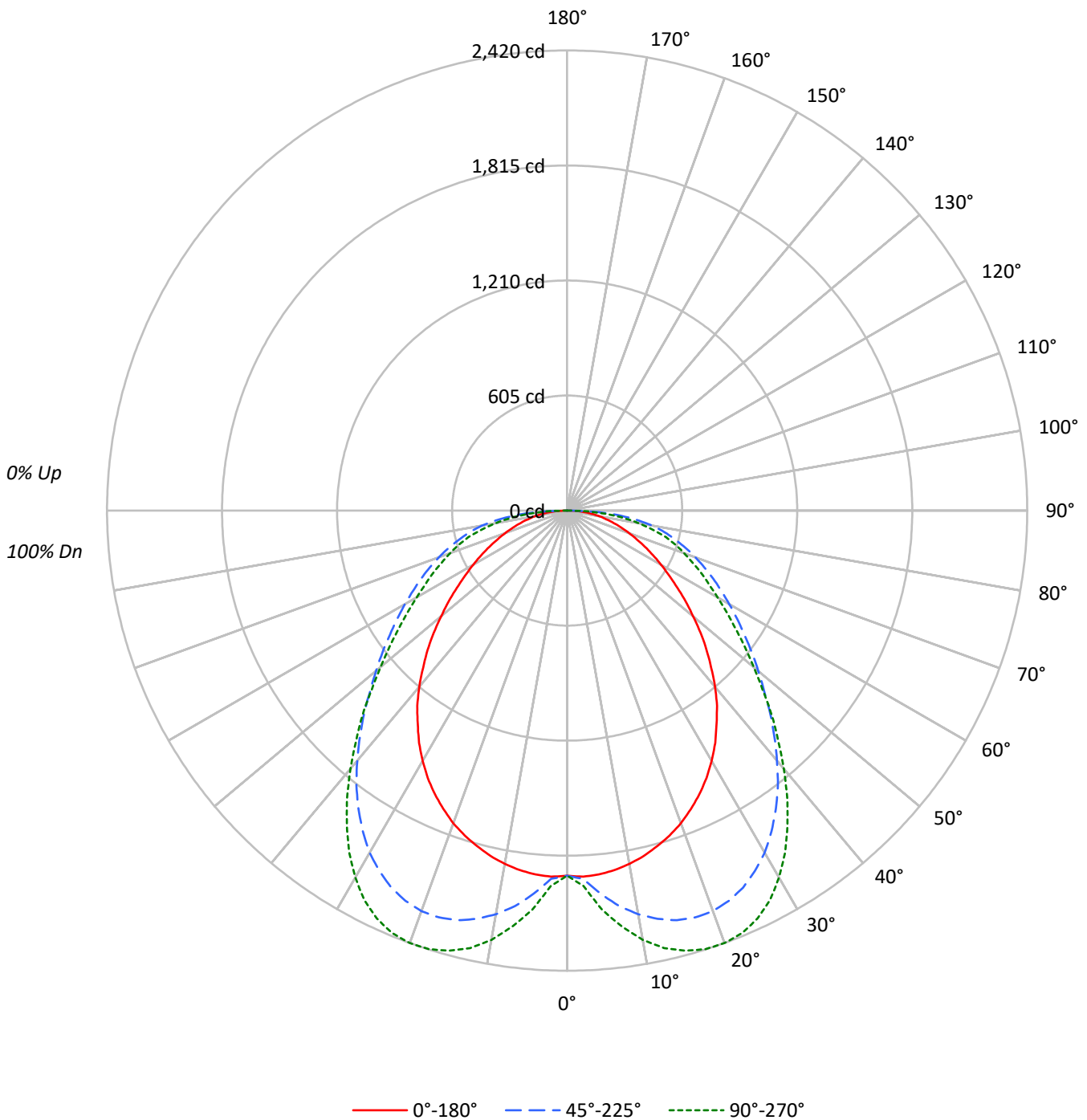
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183803

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183803

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L835-CD1-U

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°	2584	2584	2584
5°	2594	2731	2845
10°	2578	2944	3132
15°	2546	3107	3338
20°	2506	3209	3466
25°	2444	3248	3514
30°	2362	3228	3461
35°	2249	3143	3318
40°	2126	3016	3113
45°	1974	2875	2896
50°	1811	2746	2681
55°	1661	2668	2533
60°	1536	2649	2459
65°	1437	2698	2479
70°	1367	2820	2576
75°	1323	3059	2795
80°	1337	3515	2948
85°	1400	4099	3211



TEST NUMBER: P183803

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	3.0
10°-20°	618.0	9.5
20°-30°	975.4	15.1
30°-40°	1143.0	17.6
40°-50°	1093.5	16.9
50°-60°	931.8	14.4
60°-70°	747.7	11.5
70°-80°	541.2	8.4
80°-90°	231.1	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°	1789.6	27.6
0°-40°	2932.7	45.3
0°-60°	4958.0	76.5
0°-90°	6478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1920	1956	2022	2093	2106	182
15°	1828	2046	2230	2363	2396	515
25°	1646	1962	2188	2336	2367	757
35°	1370	1706	1914	2016	2020	857
45°	1038	1341	1511	1531	1522	800
55°	708	1009	1137	1106	1080	636
65°	451	759	847	792	779	449
75°	254	538	588	542	538	270
85°	91	270	266	219	208	97
90°	0	0	0	0	0	



TEST NUMBER: P183803

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.4	1920.4	1920.4	1920.4	1920.4
2.5°	1927.0	1929.3	1938.1	1975.7	1975.7
5°	1920.4	1955.8	2022.2	2093.0	2106.3
7.5°	1907.1	1986.8	2097.4	2188.1	2205.8
10°	1887.2	2020.0	2154.9	2265.6	2292.1
12.5°	1860.7	2039.9	2199.2	2325.3	2356.3
15°	1827.5	2046.5	2230.2	2362.9	2396.1
17.5°	1792.1	2044.3	2243.4	2385.0	2418.2
20°	1750.1	2026.6	2241.2	2389.5	2420.4
22.5°	1699.2	2002.3	2221.3	2371.8	2404.9
25°	1646.1	1962.4	2188.1	2336.4	2367.3
27.5°	1586.3	1916.0	2137.2	2281.0	2309.8
30°	1520.0	1856.2	2077.5	2205.8	2227.9
32.5°	1449.2	1785.5	2000.1	2117.3	2132.8
35°	1369.5	1705.8	1913.8	2015.5	2020.0
37.5°	1294.3	1619.5	1820.8	1902.7	1900.5
40°	1210.2	1526.6	1716.9	1783.2	1772.2
42.5°	1121.7	1433.7	1612.9	1659.3	1643.9
45°	1037.6	1340.7	1511.1	1531.0	1522.2
47.5°	951.4	1247.8	1404.9	1420.4	1393.8
50°	865.1	1163.8	1312.0	1305.3	1281.0
52.5°	785.4	1086.3	1223.5	1203.6	1177.0
55°	708.0	1008.9	1137.2	1106.2	1079.7
57.5°	635.0	940.3	1059.8	1017.7	993.4
60°	570.8	873.9	984.5	935.9	913.7
62.5°	508.9	814.2	913.7	862.9	840.7
65°	451.3	758.9	847.4	792.1	778.8
67.5°	396.0	703.6	781.0	727.9	712.4
70°	347.4	646.0	716.8	663.7	654.9
72.5°	298.7	592.9	652.7	604.0	597.4
75°	254.4	537.6	588.5	542.1	537.6
77.5°	210.2	477.9	524.4	469.0	458.0
80°	172.6	418.2	453.6	389.4	380.5
82.5°	130.5	345.1	362.8	305.3	300.9
85°	90.7	269.9	265.5	219.0	208.0
87.5°	48.7	161.5	141.6	112.8	108.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)