

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: P183850

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34359)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-19-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2127.9 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.51 / 1.48
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

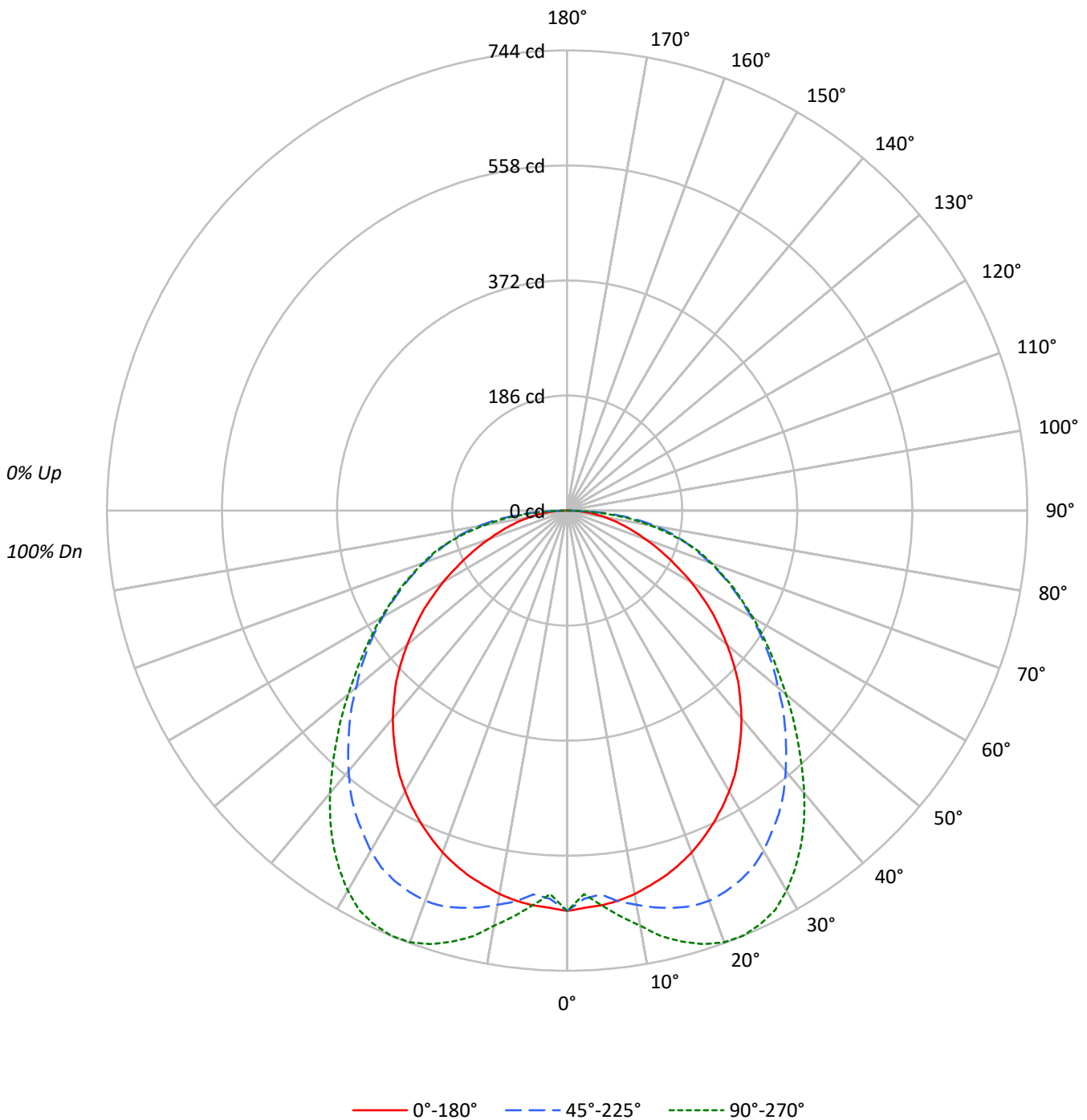
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1742	1742	1742
5°	1730	1682	1730
10°	1720	1768	1862
15°	1704	1853	2010
20°	1685	1923	2127
25°	1658	1961	2192
30°	1628	1973	2204
35°	1586	1962	2166
40°	1540	1930	2094
45°	1487	1897	2007
50°	1413	1864	1933
55°	1339	1854	1886
60°	1249	1852	1870
65°	1145	1873	1894
70°	1057	1930	1948
75°	993	2054	2054
80°	964	2253	2098
85°	960	2399	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	2.9
10°-20°	186.8	8.8
20°-30°	298.5	14.0
30°-40°	361.0	17.0
40°-50°	366.2	17.2
50°-60°	329.8	15.5
60°-70°	267.0	12.5
70°-80°	186.3	8.8
80°-90°	71.2	3.3
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°	546.2	25.7
0°-40°	907.2	42.6
0°-60°	1603.2	75.3
0°-90°	2127.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	640	621	623	638	640	61
15°	612	611	665	708	722	172
25°	558	577	660	720	738	257
35°	483	507	597	647	659	302
45°	391	423	498	524	527	300
55°	285	336	395	402	402	254
65°	180	250	294	292	298	179
75°	96	166	198	195	198	102
85°	31	69	78	70	67	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
2.5°	642.8	643.9	642.8	641.6	640.5	639.4	638.3	636.1	632.8	630.5	628.3
5°	640.5	640.5	636.1	629.4	623.9	620.6	617.2	615.0	616.1	619.4	622.8
7.5°	636.1	633.9	623.9	615.0	610.6	610.6	612.8	620.6	628.3	633.9	637.2
10°	629.4	625.0	610.6	603.9	609.5	613.9	619.4	627.2	631.7	638.3	647.2
12.5°	620.6	613.9	597.2	599.5	610.6	616.1	619.4	626.1	637.2	648.3	657.2
15°	611.7	600.6	586.1	596.1	607.2	610.6	615.0	628.3	640.5	651.6	665.0
17.5°	600.6	586.1	576.2	588.4	598.4	605.0	612.8	626.1	640.5	656.1	670.5
20°	588.4	571.7	566.2	579.5	591.7	599.5	606.1	622.8	639.4	655.0	671.6
22.5°	573.9	554.0	554.0	566.2	581.7	588.4	597.2	616.1	632.8	650.5	667.2
25°	558.4	537.3	539.5	552.8	568.4	577.3	586.1	605.0	625.0	641.6	660.5
27.5°	541.7	519.5	524.0	537.3	551.7	562.8	572.8	592.8	611.7	631.7	650.5
30°	524.0	501.8	505.1	518.4	535.1	546.2	556.2	576.2	596.1	617.2	635.0
32.5°	505.1	482.9	486.2	499.6	517.3	527.3	537.3	557.3	579.5	599.5	616.1
35°	482.9	462.9	466.3	479.6	497.3	507.3	517.3	539.5	559.5	578.4	597.2
37.5°	460.7	441.8	444.0	458.5	477.4	487.3	497.3	518.4	538.4	557.3	575.0
40°	438.5	420.7	424.1	437.4	456.3	465.1	475.1	497.3	517.3	535.1	549.5
42.5°	414.1	399.6	403.0	416.3	434.1	444.0	455.1	475.1	494.0	510.7	524.0
45°	390.8	378.6	380.8	394.1	411.9	423.0	432.9	454.0	471.8	485.1	498.4
47.5°	364.1	354.1	359.7	373.0	390.8	400.8	411.9	431.8	447.4	461.8	472.9
50°	337.5	329.7	336.4	350.8	368.6	380.8	390.8	408.5	424.1	437.4	445.2
52.5°	310.8	307.5	314.2	328.6	347.5	357.5	367.4	386.3	401.9	413.0	420.7
55°	285.3	283.1	292.0	307.5	327.5	336.4	346.4	364.1	378.6	388.5	395.2
57.5°	257.5	258.7	268.6	286.4	305.3	315.3	324.2	340.8	355.2	363.0	369.7
60°	232.0	233.1	246.4	264.2	284.2	294.2	303.1	318.6	330.8	338.6	344.1
62.5°	204.3	210.9	225.4	242.0	262.0	272.0	282.0	296.4	308.6	315.3	318.6
65°	179.8	187.6	204.3	222.0	242.0	249.8	259.8	274.2	284.2	290.9	294.2
67.5°	156.5	166.5	183.2	202.0	220.9	230.9	238.7	252.0	260.9	266.4	269.8
70°	134.3	146.5	164.3	182.1	199.8	208.7	216.5	229.8	237.6	243.1	245.3
72.5°	114.3	126.6	145.4	162.1	178.7	188.7	195.4	207.6	215.4	219.8	220.9
75°	95.5	108.8	125.4	142.1	158.7	166.5	174.3	184.3	192.1	196.5	197.6
77.5°	78.8	91.0	107.7	123.2	137.7	144.3	152.1	162.1	168.7	172.1	173.2
80°	62.2	74.4	88.8	103.2	116.6	121.0	127.7	136.5	144.3	145.4	145.4
82.5°	46.6	57.7	69.9	82.1	93.3	97.7	102.1	109.9	114.3	115.5	114.3
85°	31.1	38.9	47.7	56.6	65.5	68.8	73.3	78.8	78.8	81.0	77.7
87.5°	15.5	18.9	24.4	27.8	33.3	35.5	37.7	38.9	38.9	38.9	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
2.5°	626.1	625.0	622.8	622.8	622.8	621.7	621.7	621.7	620.6	620.6
5°	627.2	630.5	635.0	638.3	638.3	638.3	639.4	639.4	640.5	640.5
7.5°	640.5	643.9	648.3	651.6	653.9	655.0	658.3	659.4	661.6	661.6
10°	656.1	661.6	667.2	670.5	673.8	676.1	677.2	681.6	681.6	681.6
12.5°	666.1	675.0	682.7	690.5	693.8	696.0	699.4	701.6	704.9	704.9
15°	677.2	687.2	696.0	704.9	708.3	711.6	716.0	719.4	720.5	721.6
17.5°	682.7	694.9	704.9	713.8	717.1	720.5	727.1	731.6	733.8	734.9
20°	684.9	698.3	710.5	720.5	724.9	728.2	734.9	739.3	742.7	742.7
22.5°	683.8	697.2	710.5	721.6	726.0	729.3	736.0	740.5	742.7	743.8
25°	678.3	691.6	704.9	716.0	720.5	723.8	730.5	734.9	738.2	738.2
27.5°	667.2	681.6	693.8	704.9	708.3	713.8	719.4	723.8	727.1	728.2
30°	651.6	666.1	679.4	688.3	692.7	696.0	701.6	707.1	708.3	709.4
32.5°	632.8	647.2	658.3	667.2	671.6	675.0	680.5	684.9	687.2	686.1
35°	611.7	623.9	635.0	643.9	647.2	649.4	655.0	657.2	659.4	659.4
37.5°	588.4	598.4	609.5	616.1	618.3	620.6	625.0	628.3	628.3	629.4
40°	560.6	571.7	579.5	586.1	588.4	589.5	593.9	595.0	596.1	596.1
42.5°	535.1	544.0	549.5	554.0	556.2	558.4	560.6	560.6	560.6	561.7
45°	507.3	514.0	519.5	522.9	524.0	525.1	526.2	527.3	527.3	527.3
47.5°	480.7	486.2	489.6	492.9	492.9	494.0	494.0	495.1	495.1	495.1
50°	451.8	456.3	458.5	460.7	460.7	460.7	461.8	461.8	461.8	461.8
52.5°	425.2	428.5	429.6	430.7	430.7	431.8	431.8	430.7	431.8	430.7
55°	398.5	400.8	401.9	400.8	401.9	401.9	401.9	400.8	401.9	401.9
57.5°	371.9	373.0	373.0	371.9	373.0	371.9	371.9	373.0	374.1	374.1
60°	345.2	345.2	344.1	344.1	344.1	344.1	344.1	346.4	346.4	347.5
62.5°	319.7	319.7	318.6	317.5	317.5	317.5	318.6	319.7	320.8	320.8
65°	294.2	294.2	293.1	292.0	292.0	292.0	293.1	294.2	295.3	297.5
67.5°	270.9	268.6	268.6	267.5	267.5	267.5	269.8	270.9	272.0	272.0
70°	244.2	244.2	242.0	243.1	243.1	243.1	244.2	245.3	246.4	247.6
72.5°	220.9	219.8	218.7	219.8	219.8	219.8	220.9	223.1	224.2	225.4
75°	197.6	196.5	196.5	195.4	195.4	196.5	196.5	197.6	197.6	197.6
77.5°	173.2	169.8	168.7	166.5	166.5	166.5	166.5	166.5	166.5	166.5
80°	144.3	139.9	136.5	136.5	135.4	135.4	135.4	135.4	134.3	135.4
82.5°	111.0	108.8	105.5	104.4	104.4	104.4	102.1	102.1	102.1	104.4
85°	75.5	74.4	71.0	69.9	69.9	68.8	67.7	67.7	68.8	66.6
87.5°	36.6	35.5	33.3	33.3	33.3	32.2	32.2	31.1	32.2	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)