

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: P183849

Luminaire Tested: **22SR-LD2-19-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183849  
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-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1955.4 lumens  
Efficiency: N/A  
Efficacy: 133.0 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

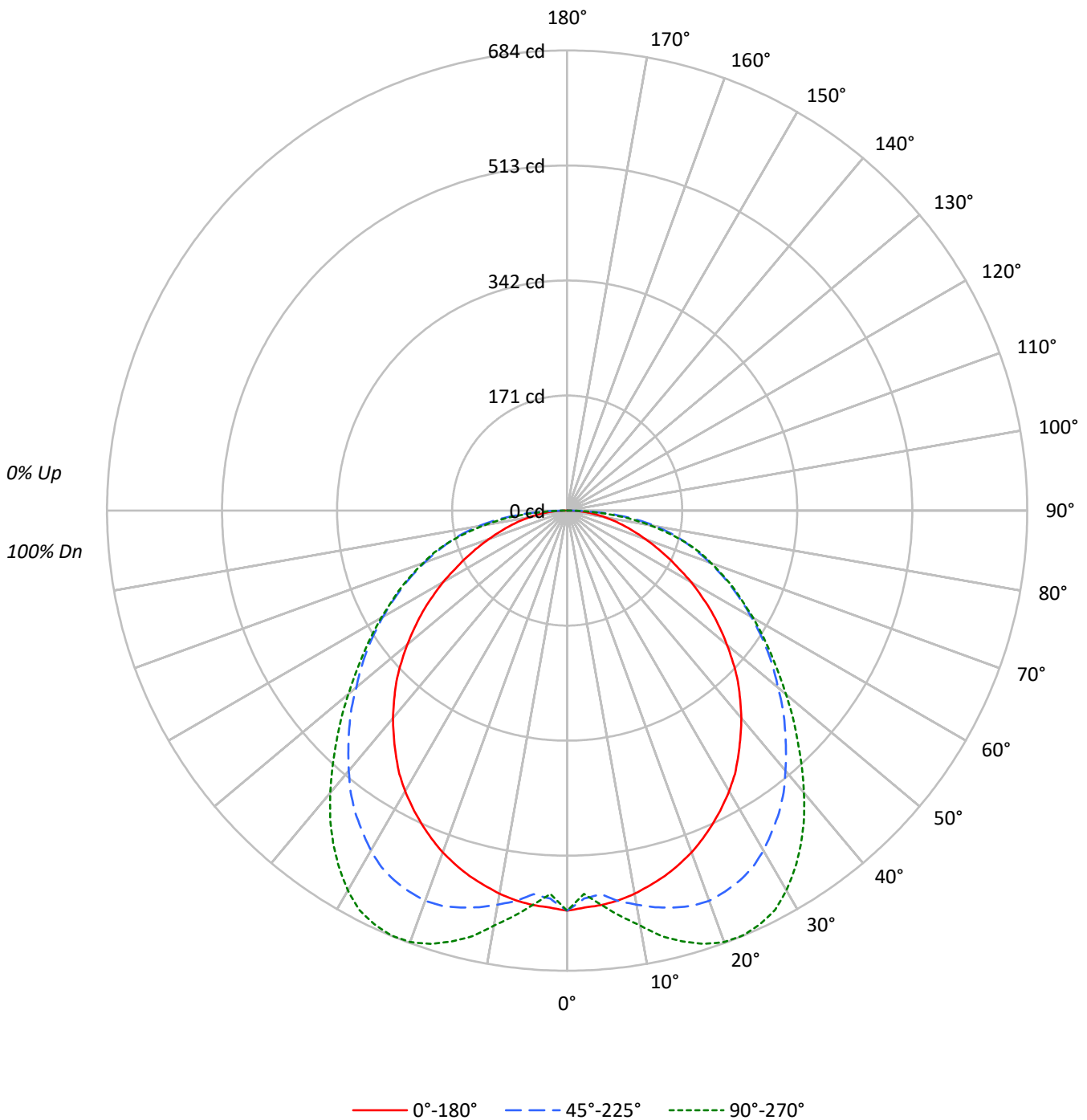
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	87	88	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1600	1600	1600
5°	1590	1546	1590
10°	1580	1625	1711
15°	1566	1702	1847
20°	1548	1767	1954
25°	1523	1802	2014
30°	1496	1813	2026
35°	1458	1803	1990
40°	1415	1774	1924
45°	1367	1743	1844
50°	1298	1713	1777
55°	1230	1704	1733
60°	1147	1702	1718
65°	1053	1721	1741
70°	971	1773	1790
75°	912	1888	1888
80°	885	2070	1929
85°	883	2205	1890



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	2.9
10°-20°	171.7	8.8
20°-30°	274.3	14.0
30°-40°	331.7	17.0
40°-50°	336.5	17.2
50°-60°	303.1	15.5
60°-70°	245.4	12.5
70°-80°	171.2	8.8
80°-90°	65.5	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°	501.9	25.7
0°-40°	833.6	42.6
0°-60°	1473.3	75.3
0°-90°	1955.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	589	570	572	587	589	56
15°	562	561	611	651	663	158
25°	513	530	607	662	678	236
35°	444	466	549	595	606	278
45°	359	389	458	482	485	276
55°	262	309	363	369	369	234
65°	165	230	270	268	273	164
75°	88	153	182	180	182	94
85°	29	63	71	64	61	31
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°	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7
2.5°	590.6	591.7	590.6	589.6	588.6	587.6	586.6	584.5	581.5	579.4	577.4
5°	588.6	588.6	584.5	578.4	573.3	570.2	567.2	565.1	566.2	569.2	572.3
7.5°	584.5	582.5	573.3	565.1	561.1	561.1	563.1	570.2	577.4	582.5	585.5
10°	578.4	574.3	561.1	554.9	560.0	564.1	569.2	576.4	580.4	586.6	594.7
12.5°	570.2	564.1	548.8	550.9	561.1	566.2	569.2	575.3	585.5	595.7	603.9
15°	562.1	551.9	538.6	547.8	558.0	561.1	565.1	577.4	588.6	598.8	611.0
17.5°	551.9	538.6	529.4	540.7	549.8	556.0	563.1	575.3	588.6	602.9	616.1
20°	540.7	525.4	520.3	532.5	543.7	550.9	557.0	572.3	587.6	601.9	617.2
22.5°	527.4	509.0	509.0	520.3	534.5	540.7	548.8	566.2	581.5	597.8	613.1
25°	513.1	493.7	495.8	508.0	522.3	530.5	538.6	556.0	574.3	589.6	607.0
27.5°	497.8	477.4	481.5	493.7	507.0	517.2	526.4	544.7	562.1	580.4	597.8
30°	481.5	461.1	464.2	476.4	491.7	501.9	511.1	529.4	547.8	567.2	583.5
32.5°	464.2	443.7	446.8	459.0	475.4	484.6	493.7	512.1	532.5	550.9	566.2
35°	443.7	425.4	428.4	440.7	457.0	466.2	475.4	495.8	514.1	531.5	548.8
37.5°	423.3	406.0	408.0	421.3	438.6	447.8	457.0	476.4	494.8	512.1	528.4
40°	402.9	386.6	389.7	401.9	419.3	427.4	436.6	457.0	475.4	491.7	505.0
42.5°	380.5	367.2	370.3	382.5	398.9	408.0	418.2	436.6	453.9	469.3	481.5
45°	359.1	347.9	349.9	362.1	378.5	388.7	397.8	417.2	433.5	445.8	458.0
47.5°	334.6	325.4	330.5	342.8	359.1	368.3	378.5	396.8	411.1	424.4	434.6
50°	310.1	303.0	309.1	322.4	338.7	349.9	359.1	375.4	389.7	401.9	409.1
52.5°	285.6	282.6	288.7	302.0	319.3	328.5	337.7	355.0	369.3	379.5	386.6
55°	262.2	260.1	268.3	282.6	300.9	309.1	318.3	334.6	347.9	357.0	363.2
57.5°	236.7	237.7	246.9	263.2	280.5	289.7	297.9	313.2	326.4	333.6	339.7
60°	213.2	214.2	226.5	242.8	261.1	270.3	278.5	292.8	304.0	311.1	316.2
62.5°	187.7	193.8	207.1	222.4	240.7	249.9	259.1	272.4	283.6	289.7	292.8
65°	165.3	172.4	187.7	204.0	222.4	229.5	238.7	252.0	261.1	267.3	270.3
67.5°	143.8	153.0	168.3	185.7	203.0	212.2	219.3	231.6	239.7	244.8	247.9
70°	123.4	134.7	151.0	167.3	183.6	191.8	198.9	211.2	218.3	223.4	225.4
72.5°	105.1	116.3	133.6	148.9	164.2	173.4	179.5	190.8	197.9	202.0	203.0
75°	87.7	100.0	115.3	130.6	145.9	153.0	160.2	169.3	176.5	180.6	181.6
77.5°	72.4	83.6	99.0	113.2	126.5	132.6	139.8	148.9	155.1	158.1	159.1
80°	57.1	68.3	81.6	94.9	107.1	111.2	117.3	125.5	132.6	133.6	133.6
82.5°	42.8	53.0	64.3	75.5	85.7	89.8	93.9	101.0	105.1	106.1	105.1
85°	28.6	35.7	43.9	52.0	60.2	63.2	67.3	72.4	72.4	74.5	71.4
87.5°	14.3	17.3	22.4	25.5	30.6	32.6	34.7	35.7	35.7	35.7	34.7
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°	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7
2.5°	575.3	574.3	572.3	572.3	572.3	571.3	571.3	571.3	570.2	570.2
5°	576.4	579.4	583.5	586.6	586.6	586.6	587.6	587.6	588.6	588.6
7.5°	588.6	591.7	595.7	598.8	600.8	601.9	604.9	605.9	608.0	608.0
10°	602.9	608.0	613.1	616.1	619.2	621.2	622.3	626.3	626.3	626.3
12.5°	612.1	620.2	627.4	634.5	637.6	639.6	642.7	644.7	647.8	647.8
15°	622.3	631.4	639.6	647.8	650.8	653.9	658.0	661.0	662.1	663.1
17.5°	627.4	638.6	647.8	655.9	659.0	662.1	668.2	672.3	674.3	675.3
20°	629.4	641.6	652.9	662.1	666.1	669.2	675.3	679.4	682.5	682.5
22.5°	628.4	640.6	652.9	663.1	667.2	670.2	676.3	680.4	682.5	683.5
25°	623.3	635.5	647.8	658.0	662.1	665.1	671.2	675.3	678.4	678.4
27.5°	613.1	626.3	637.6	647.8	650.8	655.9	661.0	665.1	668.2	669.2
30°	598.8	612.1	624.3	632.5	636.5	639.6	644.7	649.8	650.8	651.9
32.5°	581.5	594.7	604.9	613.1	617.2	620.2	625.3	629.4	631.4	630.4
35°	562.1	573.3	583.5	591.7	594.7	596.8	601.9	603.9	605.9	605.9
37.5°	540.7	549.8	560.0	566.2	568.2	570.2	574.3	577.4	577.4	578.4
40°	515.2	525.4	532.5	538.6	540.7	541.7	545.8	546.8	547.8	547.8
42.5°	491.7	499.9	505.0	509.0	511.1	513.1	515.2	515.2	515.2	516.2
45°	466.2	472.3	477.4	480.5	481.5	482.5	483.5	484.6	484.6	484.6
47.5°	441.7	446.8	449.9	452.9	452.9	453.9	453.9	455.0	455.0	455.0
50°	415.2	419.3	421.3	423.3	423.3	423.3	424.4	424.4	424.4	424.4
52.5°	390.7	393.8	394.8	395.8	395.8	396.8	396.8	395.8	396.8	395.8
55°	366.2	368.3	369.3	368.3	369.3	369.3	369.3	368.3	369.3	369.3
57.5°	341.7	342.8	342.8	341.7	342.8	341.7	341.7	342.8	343.8	343.8
60°	317.3	317.3	316.2	316.2	316.2	316.2	316.2	318.3	318.3	319.3
62.5°	293.8	293.8	292.8	291.8	291.8	291.8	292.8	293.8	294.8	294.8
65°	270.3	270.3	269.3	268.3	268.3	268.3	269.3	270.3	271.3	273.4
67.5°	248.9	246.9	246.9	245.8	245.8	245.8	247.9	248.9	249.9	249.9
70°	224.4	224.4	222.4	223.4	223.4	223.4	224.4	225.4	226.5	227.5
72.5°	203.0	202.0	201.0	202.0	202.0	202.0	203.0	205.0	206.1	207.1
75°	181.6	180.6	180.6	179.5	179.5	180.6	180.6	181.6	181.6	181.6
77.5°	159.1	156.1	155.1	153.0	153.0	153.0	153.0	153.0	153.0	153.0
80°	132.6	128.5	125.5	125.5	124.5	124.5	124.5	124.5	123.4	124.5
82.5°	102.0	100.0	96.9	95.9	95.9	95.9	93.9	93.9	93.9	95.9
85°	69.4	68.3	65.3	64.3	64.3	63.2	62.2	62.2	63.2	61.2
87.5°	33.7	32.6	30.6	30.6	30.6	29.6	29.6	28.6	29.6	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)