

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: P183852

Luminaire Tested: **22SR-LD2-20-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183852  
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-LD2-20-C-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1946.8 lumens  
Efficiency: N/A  
Efficacy: 126.4 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

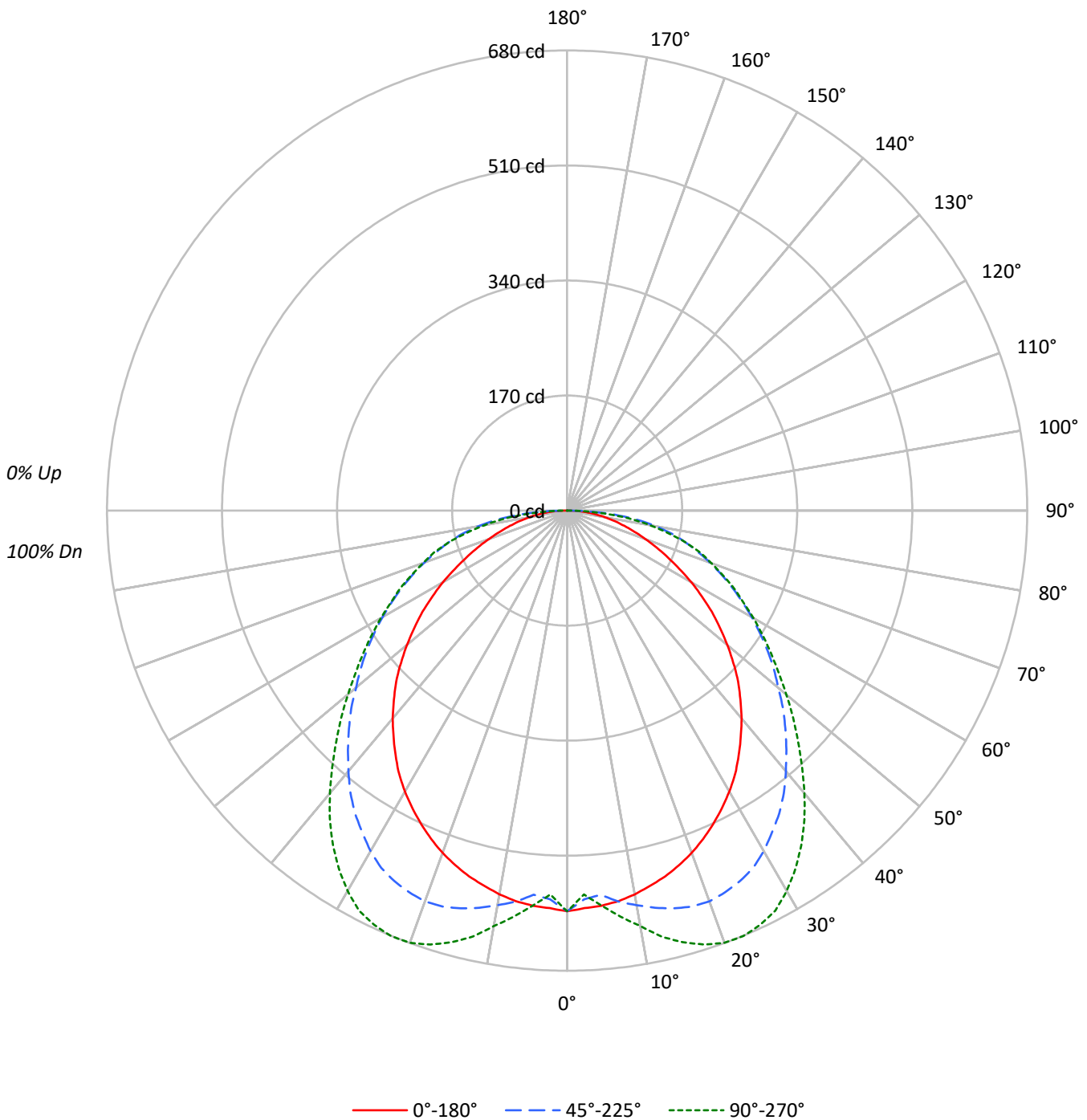
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1593	1593	1593
5°	1583	1539	1583
10°	1574	1618	1704
15°	1559	1695	1839
20°	1542	1760	1946
25°	1517	1794	2005
30°	1490	1805	2017
35°	1451	1795	1982
40°	1409	1766	1916
45°	1361	1735	1836
50°	1293	1705	1769
55°	1225	1696	1725
60°	1143	1695	1711
65°	1047	1713	1733
70°	967	1766	1782
75°	908	1880	1880
80°	882	2063	1920
85°	877	2195	1880



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	2.9
10°-20°	170.9	8.8
20°-30°	273.1	14.0
30°-40°	330.3	17.0
40°-50°	335.1	17.2
50°-60°	301.8	15.5
60°-70°	244.3	12.5
70°-80°	170.5	8.8
80°-90°	65.2	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°	499.7	25.7
0°-40°	830.0	42.6
0°-60°	1466.8	75.3
0°-90°	1946.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	586	568	570	584	586	56
15°	560	559	608	648	660	158
25°	511	528	604	659	675	235
35°	442	464	546	592	603	276
45°	358	387	456	479	482	275
55°	261	308	362	368	368	233
65°	164	228	269	267	272	164
75°	87	152	181	179	181	93
85°	28	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°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	588.1	589.1	588.1	587.0	586.0	585.0	584.0	582.0	578.9	576.9	574.9
5°	586.0	586.0	582.0	575.9	570.8	567.7	564.7	562.7	563.7	566.7	569.8
7.5°	582.0	579.9	570.8	562.7	558.6	558.6	560.6	567.7	574.9	579.9	583.0
10°	575.9	571.8	558.6	552.5	557.6	561.7	566.7	573.8	577.9	584.0	592.1
12.5°	567.7	561.7	546.4	548.5	558.6	563.7	566.7	572.8	583.0	593.1	601.3
15°	559.6	549.5	536.3	545.4	555.6	558.6	562.7	574.9	586.0	596.2	608.4
17.5°	549.5	536.3	527.1	538.3	547.4	553.5	560.6	572.8	586.0	600.2	613.5
20°	538.3	523.1	518.0	530.2	541.3	548.5	554.5	569.8	585.0	599.2	614.5
22.5°	525.1	506.8	506.8	518.0	532.2	538.3	546.4	563.7	578.9	595.2	610.4
25°	510.9	491.6	493.6	505.8	520.0	528.1	536.3	553.5	571.8	587.0	604.3
27.5°	495.6	475.3	479.4	491.6	504.8	514.9	524.1	542.4	559.6	577.9	595.2
30°	479.4	459.1	462.1	474.3	489.5	499.7	508.8	527.1	545.4	564.7	581.0
32.5°	462.1	441.8	444.9	457.0	473.3	482.4	491.6	509.9	530.2	548.5	563.7
35°	441.8	423.5	426.6	438.8	455.0	464.2	473.3	493.6	511.9	529.2	546.4
37.5°	421.5	404.2	406.3	419.5	436.7	445.9	455.0	474.3	492.6	509.9	526.1
40°	401.2	384.9	388.0	400.2	417.4	425.6	434.7	455.0	473.3	489.5	502.7
42.5°	378.8	365.6	368.7	380.9	397.1	406.3	416.4	434.7	452.0	467.2	479.4
45°	357.5	346.3	348.4	360.6	376.8	387.0	396.1	415.4	431.7	443.8	456.0
47.5°	333.1	324.0	329.1	341.3	357.5	366.6	376.8	395.1	409.3	422.5	432.7
50°	308.8	301.6	307.7	320.9	337.2	348.4	357.5	373.8	388.0	400.2	407.3
52.5°	284.4	281.3	287.4	300.6	317.9	327.0	336.2	353.4	367.7	377.8	384.9
55°	261.0	259.0	267.1	281.3	299.6	307.7	316.9	333.1	346.3	355.5	361.6
57.5°	235.6	236.6	245.8	262.0	279.3	288.4	296.6	311.8	325.0	332.1	338.2
60°	212.3	213.3	225.5	241.7	260.0	269.1	277.3	291.5	302.7	309.8	314.9
62.5°	186.9	193.0	206.2	221.4	239.7	248.8	258.0	271.2	282.4	288.4	291.5
65°	164.5	171.6	186.9	203.1	221.4	228.5	237.7	250.9	260.0	266.1	269.1
67.5°	143.2	152.3	167.6	184.8	202.1	211.3	218.4	230.6	238.7	243.8	246.8
70°	122.9	134.1	150.3	166.6	182.8	190.9	198.1	210.2	217.3	222.4	224.5
72.5°	104.6	115.8	133.1	148.3	163.5	172.7	178.8	189.9	197.0	201.1	202.1
75°	87.3	99.5	114.8	130.0	145.2	152.3	159.5	168.6	175.7	179.8	180.8
77.5°	72.1	83.3	98.5	112.7	125.9	132.0	139.1	148.3	154.4	157.4	158.4
80°	56.9	68.0	81.3	94.5	106.6	110.7	116.8	124.9	132.0	133.1	133.1
82.5°	42.7	52.8	64.0	75.2	85.3	89.4	93.4	100.5	104.6	105.6	104.6
85°	28.4	35.5	43.7	51.8	59.9	63.0	67.0	72.1	72.1	74.1	71.1
87.5°	14.2	17.3	22.3	25.4	30.5	32.5	34.5	35.5	35.5	35.5	34.5
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°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	572.8	571.8	569.8	569.8	569.8	568.8	568.8	568.8	567.7	567.7
5°	573.8	576.9	581.0	584.0	584.0	584.0	585.0	585.0	586.0	586.0
7.5°	586.0	589.1	593.1	596.2	598.2	599.2	602.3	603.3	605.3	605.3
10°	600.2	605.3	610.4	613.5	616.5	618.5	619.5	623.6	623.6	623.6
12.5°	609.4	617.5	624.6	631.7	634.8	636.8	639.9	641.9	644.9	644.9
15°	619.5	628.7	636.8	644.9	648.0	651.0	655.1	658.1	659.2	660.2
17.5°	624.6	635.8	644.9	653.1	656.1	659.2	665.3	669.3	671.3	672.4
20°	626.7	638.8	650.0	659.2	663.2	666.3	672.4	676.4	679.5	679.5
22.5°	625.6	637.8	650.0	660.2	664.2	667.3	673.4	677.4	679.5	680.5
25°	620.6	632.8	644.9	655.1	659.2	662.2	668.3	672.4	675.4	675.4
27.5°	610.4	623.6	634.8	644.9	648.0	653.1	658.1	662.2	665.3	666.3
30°	596.2	609.4	621.6	629.7	633.8	636.8	641.9	647.0	648.0	649.0
32.5°	578.9	592.1	602.3	610.4	614.5	617.5	622.6	626.7	628.7	627.7
35°	559.6	570.8	581.0	589.1	592.1	594.2	599.2	601.3	603.3	603.3
37.5°	538.3	547.4	557.6	563.7	565.7	567.7	571.8	574.9	574.9	575.9
40°	512.9	523.1	530.2	536.3	538.3	539.3	543.4	544.4	545.4	545.4
42.5°	489.5	497.7	502.7	506.8	508.8	510.9	512.9	512.9	512.9	513.9
45°	464.2	470.2	475.3	478.4	479.4	480.4	481.4	482.4	482.4	482.4
47.5°	439.8	444.9	447.9	450.9	450.9	452.0	452.0	453.0	453.0	453.0
50°	413.4	417.4	419.5	421.5	421.5	421.5	422.5	422.5	422.5	422.5
52.5°	389.0	392.0	393.1	394.1	394.1	395.1	395.1	394.1	395.1	394.1
55°	364.6	366.6	367.7	366.6	367.7	367.7	367.7	366.6	367.7	367.7
57.5°	340.2	341.3	341.3	340.2	341.3	340.2	340.2	341.3	342.3	342.3
60°	315.9	315.9	314.9	314.9	314.9	314.9	314.9	316.9	316.9	317.9
62.5°	292.5	292.5	291.5	290.5	290.5	290.5	291.5	292.5	293.5	293.5
65°	269.1	269.1	268.1	267.1	267.1	267.1	268.1	269.1	270.2	272.2
67.5°	247.8	245.8	245.8	244.8	244.8	244.8	246.8	247.8	248.8	248.8
70°	223.4	223.4	221.4	222.4	222.4	222.4	223.4	224.5	225.5	226.5
72.5°	202.1	201.1	200.1	201.1	201.1	201.1	202.1	204.1	205.2	206.2
75°	180.8	179.8	179.8	178.8	178.8	179.8	179.8	180.8	180.8	180.8
77.5°	158.4	155.4	154.4	152.3	152.3	152.3	152.3	152.3	152.3	152.3
80°	132.0	128.0	124.9	124.9	123.9	123.9	123.9	123.9	122.9	123.9
82.5°	101.6	99.5	96.5	95.5	95.5	95.5	93.4	93.4	93.4	95.5
85°	69.1	68.0	65.0	64.0	64.0	63.0	62.0	62.0	63.0	60.9
87.5°	33.5	32.5	30.5	30.5	30.5	29.5	29.5	28.4	29.5	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)