

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: P183847

Luminaire Tested: **22SR-LD2-19-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183847  
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-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: 1859.5 lumens  
Efficiency: N/A  
Efficacy: 126.5 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

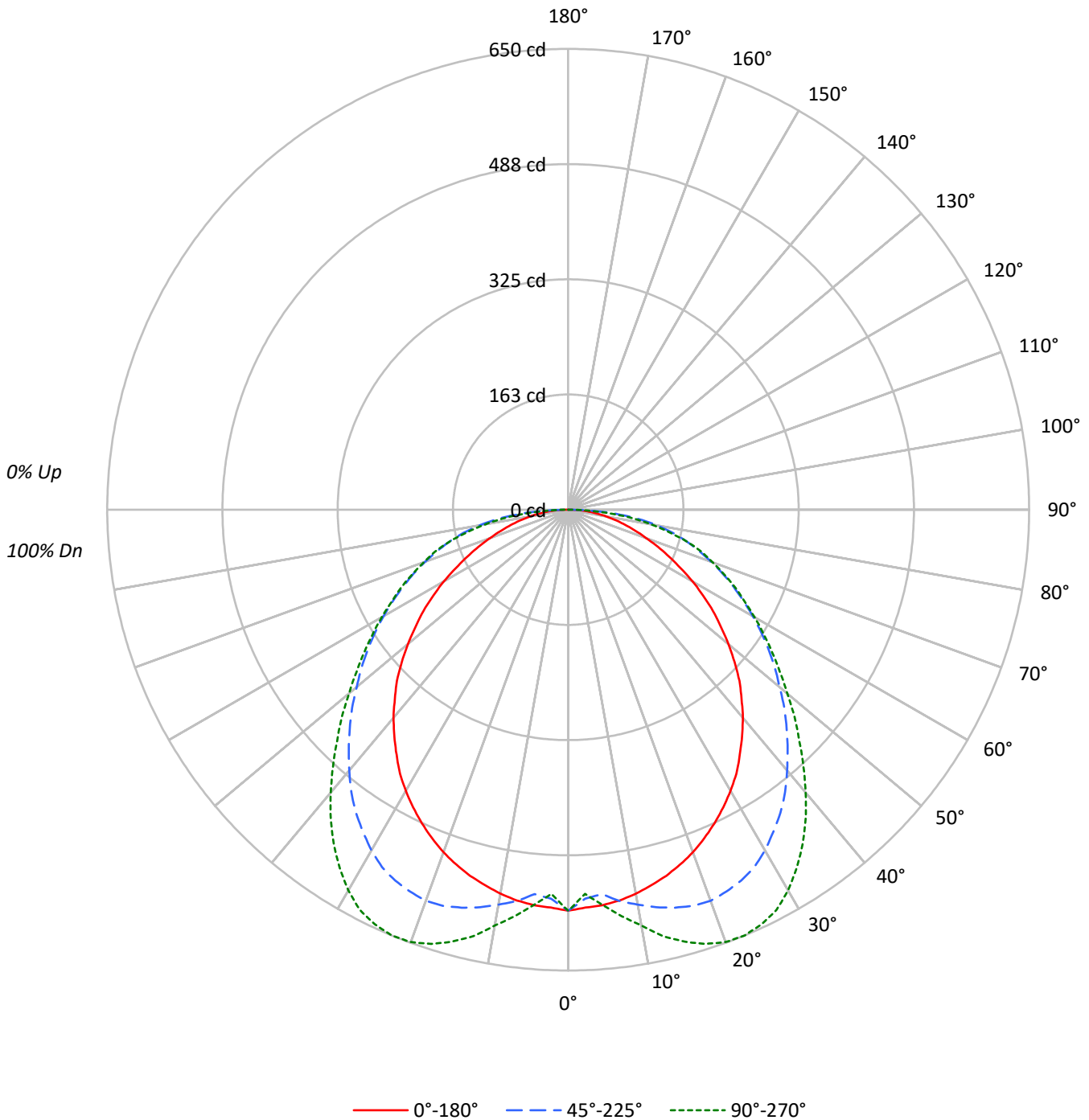
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1522	1522	1522
5°	1512	1470	1512
10°	1503	1545	1627
15°	1489	1619	1757
20°	1473	1681	1859
25°	1449	1714	1915
30°	1423	1724	1926
35°	1386	1714	1893
40°	1346	1687	1830
45°	1300	1658	1754
50°	1235	1629	1690
55°	1170	1620	1648
60°	1091	1618	1634
65°	1001	1637	1656
70°	924	1687	1702
75°	867	1796	1796
80°	841	1970	1835
85°	840	2096	1797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	2.9
10°-20°	163.3	8.8
20°-30°	260.9	14.0
30°-40°	315.5	17.0
40°-50°	320.0	17.2
50°-60°	288.2	15.5
60°-70°	233.4	12.5
70°-80°	162.9	8.8
80°-90°	62.2	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°	477.3	25.7
0°-40°	792.8	42.6
0°-60°	1401.0	75.3
0°-90°	1859.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	560	542	544	558	560	53
15°	534	534	581	619	631	151
25°	488	504	577	630	645	225
35°	422	443	522	566	576	264
45°	342	370	436	458	461	262
55°	249	294	345	351	351	222
65°	157	218	257	255	260	156
75°	83	146	173	171	173	89
85°	27	60	68	61	58	30
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°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
2.5°	561.7	562.7	561.7	560.7	559.8	558.8	557.8	555.9	553.0	551.0	549.1
5°	559.8	559.8	555.9	550.0	545.2	542.3	539.4	537.4	538.4	541.3	544.2
7.5°	555.9	553.9	545.2	537.4	533.6	533.6	535.5	542.3	549.1	553.9	556.8
10°	550.0	546.2	533.6	527.7	532.6	536.5	541.3	548.1	552.0	557.8	565.6
12.5°	542.3	536.5	521.9	523.9	533.6	538.4	541.3	547.1	556.8	566.5	574.3
15°	534.5	524.8	512.2	520.9	530.6	533.6	537.4	549.1	559.8	569.5	581.1
17.5°	524.8	512.2	503.5	514.2	522.9	528.7	535.5	547.1	559.8	573.3	585.9
20°	514.2	499.6	494.8	506.4	517.1	523.9	529.7	544.2	558.8	572.4	586.9
22.5°	501.5	484.1	484.1	494.8	508.3	514.2	521.9	538.4	553.0	568.5	583.0
25°	488.0	469.5	471.5	483.1	496.7	504.5	512.2	528.7	546.2	560.7	577.2
27.5°	473.4	454.0	457.9	469.5	482.1	491.8	500.6	518.0	534.5	552.0	568.5
30°	457.9	438.5	441.4	453.0	467.6	477.3	486.0	503.5	520.9	539.4	554.9
32.5°	441.4	422.0	424.9	436.5	452.1	460.8	469.5	487.0	506.4	523.9	538.4
35°	422.0	404.5	407.4	419.1	434.6	443.3	452.1	471.5	488.9	505.4	521.9
37.5°	402.6	386.1	388.0	400.7	417.1	425.9	434.6	453.0	470.5	487.0	502.5
40°	383.2	367.7	370.6	382.2	398.7	406.5	415.2	434.6	452.1	467.6	480.2
42.5°	361.8	349.2	352.1	363.8	379.3	388.0	397.7	415.2	431.7	446.2	457.9
45°	341.5	330.8	332.7	344.4	359.9	369.6	378.3	396.8	412.3	423.9	435.6
47.5°	318.2	309.5	314.3	326.0	341.5	350.2	359.9	377.4	391.0	403.6	413.3
50°	294.9	288.1	293.9	306.6	322.1	332.7	341.5	357.0	370.6	382.2	389.0
52.5°	271.6	268.7	274.5	287.2	303.6	312.4	321.1	337.6	351.2	360.9	367.7
55°	249.3	247.4	255.1	268.7	286.2	293.9	302.7	318.2	330.8	339.5	345.4
57.5°	225.1	226.0	234.8	250.3	266.8	275.5	283.3	297.8	310.4	317.2	323.0
60°	202.8	203.7	215.4	230.9	248.3	257.1	264.8	278.4	289.1	295.9	300.7
62.5°	178.5	184.3	196.9	211.5	228.9	237.7	246.4	259.0	269.7	275.5	278.4
65°	157.2	163.9	178.5	194.0	211.5	218.3	227.0	239.6	248.3	254.2	257.1
67.5°	136.8	145.5	160.1	176.6	193.1	201.8	208.6	220.2	228.0	232.8	235.7
70°	117.4	128.1	143.6	159.1	174.6	182.4	189.2	200.8	207.6	212.5	214.4
72.5°	99.9	110.6	127.1	141.6	156.2	164.9	170.7	181.4	188.2	192.1	193.1
75°	83.4	95.1	109.6	124.2	138.7	145.5	152.3	161.0	167.8	171.7	172.7
77.5°	68.9	79.5	94.1	107.7	120.3	126.1	132.9	141.6	147.5	150.4	151.3
80°	54.3	65.0	77.6	90.2	101.9	105.7	111.6	119.3	126.1	127.1	127.1
82.5°	40.7	50.4	61.1	71.8	81.5	85.4	89.2	96.0	99.9	100.9	99.9
85°	27.2	34.0	41.7	49.5	57.2	60.1	64.0	68.9	68.9	70.8	67.9
87.5°	13.6	16.5	21.3	24.3	29.1	31.0	33.0	34.0	34.0	34.0	33.0
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°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
2.5°	547.1	546.2	544.2	544.2	544.2	543.3	543.3	543.3	542.3	542.3
5°	548.1	551.0	554.9	557.8	557.8	557.8	558.8	558.8	559.8	559.8
7.5°	559.8	562.7	566.5	569.5	571.4	572.4	575.3	576.2	578.2	578.2
10°	573.3	578.2	583.0	585.9	588.9	590.8	591.8	595.6	595.6	595.6
12.5°	582.1	589.8	596.6	603.4	606.3	608.3	611.2	613.1	616.0	616.0
15°	591.8	600.5	608.3	616.0	618.9	621.8	625.7	628.6	629.6	630.6
17.5°	596.6	607.3	616.0	623.8	626.7	629.6	635.4	639.3	641.2	642.2
20°	598.6	610.2	620.9	629.6	633.5	636.4	642.2	646.1	649.0	649.0
22.5°	597.6	609.2	620.9	630.6	634.4	637.4	643.2	647.1	649.0	650.0
25°	592.7	604.4	616.0	625.7	629.6	632.5	638.3	642.2	645.1	645.1
27.5°	583.0	595.6	606.3	616.0	618.9	623.8	628.6	632.5	635.4	636.4
30°	569.5	582.1	593.7	601.5	605.3	608.3	613.1	618.0	618.9	619.9
32.5°	553.0	565.6	575.3	583.0	586.9	589.8	594.7	598.6	600.5	599.5
35°	534.5	545.2	554.9	562.7	565.6	567.5	572.4	574.3	576.2	576.2
37.5°	514.2	522.9	532.6	538.4	540.3	542.3	546.2	549.1	549.1	550.0
40°	489.9	499.6	506.4	512.2	514.2	515.1	519.0	520.0	520.9	520.9
42.5°	467.6	475.4	480.2	484.1	486.0	488.0	489.9	489.9	489.9	490.9
45°	443.3	449.2	454.0	456.9	457.9	458.9	459.8	460.8	460.8	460.8
47.5°	420.1	424.9	427.8	430.7	430.7	431.7	431.7	432.7	432.7	432.7
50°	394.8	398.7	400.7	402.6	402.6	402.6	403.6	403.6	403.6	403.6
52.5°	371.6	374.5	375.4	376.4	376.4	377.4	377.4	376.4	377.4	376.4
55°	348.3	350.2	351.2	350.2	351.2	351.2	351.2	350.2	351.2	351.2
57.5°	325.0	326.0	326.0	325.0	326.0	325.0	325.0	326.0	326.9	326.9
60°	301.7	301.7	300.7	300.7	300.7	300.7	300.7	302.7	302.7	303.6
62.5°	279.4	279.4	278.4	277.5	277.5	277.5	278.4	279.4	280.4	280.4
65°	257.1	257.1	256.1	255.1	255.1	255.1	256.1	257.1	258.0	260.0
67.5°	236.7	234.8	234.8	233.8	233.8	233.8	235.7	236.7	237.7	237.7
70°	213.4	213.4	211.5	212.5	212.5	212.5	213.4	214.4	215.4	216.3
72.5°	193.1	192.1	191.1	192.1	192.1	192.1	193.1	195.0	196.0	196.9
75°	172.7	171.7	171.7	170.7	170.7	171.7	171.7	172.7	172.7	172.7
77.5°	151.3	148.4	147.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
80°	126.1	122.2	119.3	119.3	118.4	118.4	118.4	118.4	117.4	118.4
82.5°	97.0	95.1	92.2	91.2	91.2	91.2	89.2	89.2	89.2	91.2
85°	66.0	65.0	62.1	61.1	61.1	60.1	59.2	59.2	60.1	58.2
87.5°	32.0	31.0	29.1	29.1	29.1	28.1	28.1	27.2	28.1	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)