

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: P183853

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183853  
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-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2007.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 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

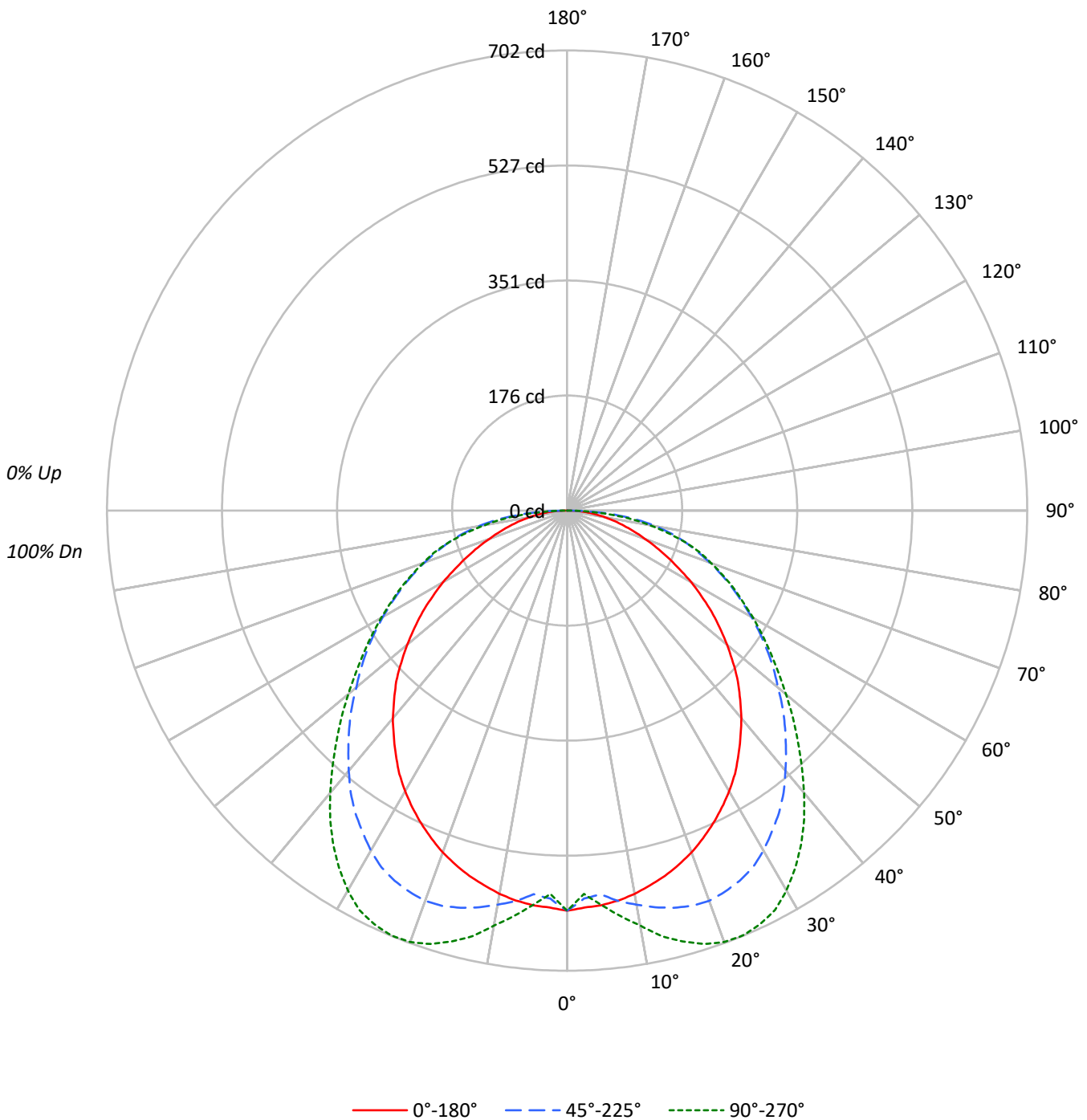
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1643	1643	1643
5°	1632	1587	1632
10°	1622	1668	1757
15°	1607	1747	1896
20°	1589	1814	2006
25°	1564	1850	2067
30°	1536	1861	2079
35°	1496	1850	2043
40°	1453	1821	1975
45°	1403	1789	1893
50°	1333	1758	1824
55°	1263	1749	1778
60°	1178	1747	1764
65°	1080	1767	1787
70°	997	1821	1837
75°	936	1938	1938
80°	908	2126	1979
85°	905	2263	1939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	2.9
10°-20°	176.2	8.8
20°-30°	281.6	14.0
30°-40°	340.5	17.0
40°-50°	345.4	17.2
50°-60°	311.1	15.5
60°-70°	251.9	12.5
70°-80°	175.8	8.8
80°-90°	67.2	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°	515.2	25.7
0°-40°	855.7	42.6
0°-60°	1512.2	75.3
0°-90°	2007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	604	585	587	602	604	57
15°	577	576	627	668	681	163
25°	527	544	623	680	696	243
35°	456	478	563	610	622	285
45°	369	399	470	494	497	283
55°	269	317	373	379	379	240
65°	170	236	278	275	281	169
75°	90	157	186	184	186	96
85°	29	65	73	66	63	32
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°	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4
2.5°	606.2	607.3	606.2	605.2	604.2	603.1	602.1	600.0	596.8	594.7	592.6
5°	604.2	604.2	600.0	593.7	588.4	585.3	582.2	580.1	581.1	584.3	587.4
7.5°	600.0	597.9	588.4	580.1	575.9	575.9	578.0	585.3	592.6	597.9	601.0
10°	593.7	589.5	575.9	569.6	574.8	579.0	584.3	591.6	595.8	602.1	610.4
12.5°	585.3	579.0	563.3	565.4	575.9	581.1	584.3	590.5	601.0	611.5	619.9
15°	576.9	566.5	552.8	562.3	572.7	575.9	580.1	592.6	604.2	614.6	627.2
17.5°	566.5	552.8	543.4	554.9	564.4	570.6	578.0	590.5	604.2	618.8	632.4
20°	554.9	539.2	534.0	546.6	558.1	565.4	571.7	587.4	603.1	617.8	633.5
22.5°	541.3	522.5	522.5	534.0	548.7	554.9	563.3	581.1	596.8	613.6	629.3
25°	526.7	506.8	508.9	521.4	536.1	544.5	552.8	570.6	589.5	605.2	623.0
27.5°	511.0	490.0	494.2	506.8	520.4	530.9	540.3	559.1	576.9	595.8	613.6
30°	494.2	473.3	476.4	489.0	504.7	515.2	524.6	543.4	562.3	582.2	598.9
32.5°	476.4	455.5	458.6	471.2	487.9	497.4	506.8	525.6	546.6	565.4	581.1
35°	455.5	436.6	439.8	452.3	469.1	478.5	487.9	508.9	527.7	545.5	563.3
37.5°	434.5	416.7	418.8	432.4	450.2	459.7	469.1	489.0	507.8	525.6	542.4
40°	413.6	396.8	400.0	412.5	430.3	438.7	448.1	469.1	487.9	504.7	518.3
42.5°	390.6	376.9	380.1	392.6	409.4	418.8	429.3	448.1	465.9	481.6	494.2
45°	368.6	357.0	359.1	371.7	388.5	398.9	408.4	428.2	445.0	457.6	470.1
47.5°	343.4	334.0	339.2	351.8	368.6	378.0	388.5	407.3	422.0	435.6	446.0
50°	318.3	311.0	317.3	330.9	347.6	359.1	368.6	385.3	400.0	412.5	419.9
52.5°	293.2	290.0	296.3	309.9	327.7	337.2	346.6	364.4	379.0	389.5	396.8
55°	269.1	267.0	275.4	290.0	308.9	317.3	326.7	343.4	357.0	366.5	372.8
57.5°	242.9	244.0	253.4	270.1	287.9	297.4	305.7	321.4	335.1	342.4	348.7
60°	218.8	219.9	232.4	249.2	268.0	277.5	285.8	300.5	312.0	319.4	324.6
62.5°	192.7	198.9	212.6	228.3	247.1	256.5	266.0	279.6	291.1	297.4	300.5
65°	169.6	177.0	192.7	209.4	228.3	235.6	245.0	258.6	268.0	274.3	277.5
67.5°	147.6	157.1	172.8	190.6	208.4	217.8	225.1	237.7	246.1	251.3	254.4
70°	126.7	138.2	155.0	171.7	188.5	196.8	204.2	216.7	224.1	229.3	231.4
72.5°	107.8	119.4	137.2	152.9	168.6	178.0	184.3	195.8	203.1	207.3	208.4
75°	90.0	102.6	118.3	134.0	149.7	157.1	164.4	173.8	181.1	185.3	186.4
77.5°	74.3	85.9	101.6	116.2	129.8	136.1	143.4	152.9	159.2	162.3	163.3
80°	58.6	70.2	83.8	97.4	109.9	114.1	120.4	128.8	136.1	137.2	137.2
82.5°	44.0	54.4	66.0	77.5	88.0	92.1	96.3	103.7	107.8	108.9	107.8
85°	29.3	36.6	45.0	53.4	61.8	64.9	69.1	74.3	74.3	76.4	73.3
87.5°	14.7	17.8	23.0	26.2	31.4	33.5	35.6	36.6	36.6	36.6	35.6
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°	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4
2.5°	590.5	589.5	587.4	587.4	587.4	586.4	586.4	586.4	585.3	585.3
5°	591.6	594.7	598.9	602.1	602.1	602.1	603.1	603.1	604.2	604.2
7.5°	604.2	607.3	611.5	614.6	616.7	617.8	620.9	622.0	624.0	624.0
10°	618.8	624.0	629.3	632.4	635.6	637.7	638.7	642.9	642.9	642.9
12.5°	628.2	636.6	643.9	651.3	654.4	656.5	659.6	661.7	664.9	664.9
15°	638.7	648.1	656.5	664.9	668.0	671.2	675.4	678.5	679.5	680.6
17.5°	643.9	655.5	664.9	673.3	676.4	679.5	685.8	690.0	692.1	693.2
20°	646.0	658.6	670.1	679.5	683.7	686.9	693.2	697.3	700.5	700.5
22.5°	645.0	657.6	670.1	680.6	684.8	687.9	694.2	698.4	700.5	701.5
25°	639.8	652.3	664.9	675.4	679.5	682.7	689.0	693.2	696.3	696.3
27.5°	629.3	642.9	654.4	664.9	668.0	673.3	678.5	682.7	685.8	686.9
30°	614.6	628.2	640.8	649.2	653.4	656.5	661.7	667.0	668.0	669.1
32.5°	596.8	610.4	620.9	629.3	633.5	636.6	641.8	646.0	648.1	647.1
35°	576.9	588.4	598.9	607.3	610.4	612.5	617.8	619.9	622.0	622.0
37.5°	554.9	564.4	574.8	581.1	583.2	585.3	589.5	592.6	592.6	593.7
40°	528.8	539.2	546.6	552.8	554.9	556.0	560.2	561.2	562.3	562.3
42.5°	504.7	513.1	518.3	522.5	524.6	526.7	528.8	528.8	528.8	529.8
45°	478.5	484.8	490.0	493.2	494.2	495.3	496.3	497.4	497.4	497.4
47.5°	453.4	458.6	461.8	464.9	464.9	465.9	465.9	467.0	467.0	467.0
50°	426.2	430.3	432.4	434.5	434.5	434.5	435.6	435.6	435.6	435.6
52.5°	401.0	404.2	405.2	406.3	406.3	407.3	407.3	406.3	407.3	406.3
55°	375.9	378.0	379.0	378.0	379.0	379.0	379.0	378.0	379.0	379.0
57.5°	350.8	351.8	351.8	350.8	351.8	350.8	350.8	351.8	352.9	352.9
60°	325.6	325.6	324.6	324.6	324.6	324.6	324.6	326.7	326.7	327.7
62.5°	301.6	301.6	300.5	299.5	299.5	299.5	300.5	301.6	302.6	302.6
65°	277.5	277.5	276.4	275.4	275.4	275.4	276.4	277.5	278.5	280.6
67.5°	255.5	253.4	253.4	252.3	252.3	252.3	254.4	255.5	256.5	256.5
70°	230.4	230.4	228.3	229.3	229.3	229.3	230.4	231.4	232.4	233.5
72.5°	208.4	207.3	206.3	207.3	207.3	207.3	208.4	210.5	211.5	212.6
75°	186.4	185.3	185.3	184.3	184.3	185.3	185.3	186.4	186.4	186.4
77.5°	163.3	160.2	159.2	157.1	157.1	157.1	157.1	157.1	157.1	157.1
80°	136.1	131.9	128.8	128.8	127.7	127.7	127.7	127.7	126.7	127.7
82.5°	104.7	102.6	99.5	98.4	98.4	98.4	96.3	96.3	96.3	98.4
85°	71.2	70.2	67.0	66.0	66.0	64.9	63.9	63.9	64.9	62.8
87.5°	34.6	33.5	31.4	31.4	31.4	30.4	30.4	29.3	30.4	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)