

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: P183855

Luminaire Tested: **22SR-LD2-20-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183855  
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-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: 2227.8 lumens  
Efficiency: N/A  
Efficacy: 144.7 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

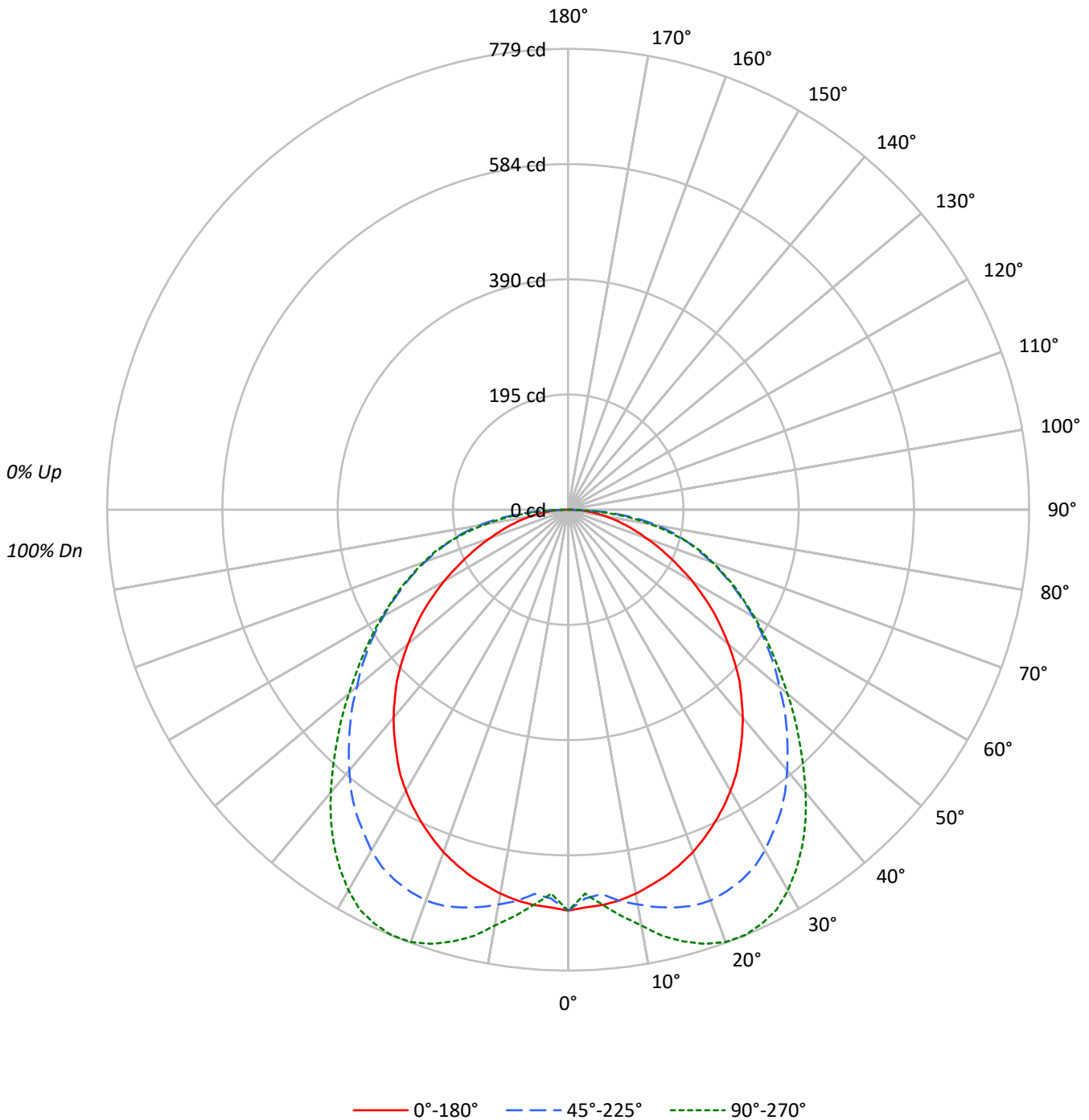
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1823	1823	1823
5°	1811	1761	1811
10°	1801	1852	1950
15°	1784	1940	2105
20°	1764	2014	2227
25°	1736	2053	2295
30°	1705	2066	2308
35°	1661	2054	2268
40°	1613	2021	2192
45°	1557	1986	2101
50°	1479	1951	2024
55°	1401	1941	1974
60°	1307	1939	1958
65°	1199	1961	1983
70°	1106	2021	2039
75°	1040	2151	2151
80°	1009	2360	2197
85°	1003	2513	2152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	2.9
10°-20°	195.6	8.8
20°-30°	312.5	14.0
30°-40°	378.0	17.0
40°-50°	383.4	17.2
50°-60°	345.3	15.5
60°-70°	279.6	12.5
70°-80°	195.1	8.8
80°-90°	74.6	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°	571.8	25.7
0°-40°	949.8	42.6
0°-60°	1678.5	75.3
0°-90°	2227.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2227.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	671	650	652	668	671	64
15°	640	639	696	742	756	181
25°	585	604	692	754	773	269
35°	506	531	625	678	690	316
45°	409	443	522	549	552	314
55°	299	352	414	421	421	266
65°	188	262	308	306	312	187
75°	100	174	207	205	207	107
85°	32	72	81	73	70	35
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°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	672.9	674.1	672.9	671.8	670.6	669.4	668.3	666.0	662.5	660.2	657.8
5°	670.6	670.6	666.0	659.0	653.2	649.7	646.2	643.9	645.0	648.5	652.0
7.5°	666.0	663.6	653.2	643.9	639.2	639.2	641.6	649.7	657.8	663.6	667.1
10°	659.0	654.3	639.2	632.3	638.1	642.7	648.5	656.7	661.3	668.3	677.6
12.5°	649.7	642.7	625.3	627.6	639.2	645.0	648.5	655.5	667.1	678.7	688.0
15°	640.4	628.8	613.7	624.1	635.7	639.2	643.9	657.8	670.6	682.2	696.2
17.5°	628.8	613.7	603.2	616.0	626.4	633.4	641.6	655.5	670.6	686.9	702.0
20°	616.0	598.6	592.7	606.7	619.5	627.6	634.6	652.0	669.4	685.7	703.2
22.5°	600.9	580.0	580.0	592.7	609.0	616.0	625.3	645.0	662.5	681.1	698.5
25°	584.6	562.5	564.8	578.8	595.1	604.4	613.7	633.4	654.3	671.8	691.5
27.5°	567.2	543.9	548.6	562.5	577.6	589.3	599.7	620.6	640.4	661.3	681.1
30°	548.6	525.3	528.8	542.8	560.2	571.8	582.3	603.2	624.1	646.2	664.8
32.5°	528.8	505.6	509.1	523.0	541.6	552.1	562.5	583.4	606.7	627.6	645.0
35°	505.6	484.7	488.1	502.1	520.7	531.1	541.6	564.8	585.8	605.5	625.3
37.5°	482.3	462.6	464.9	480.0	499.8	510.2	520.7	542.8	563.7	583.4	602.0
40°	459.1	440.5	444.0	457.9	477.7	487.0	497.4	520.7	541.6	560.2	575.3
42.5°	433.5	418.4	421.9	435.8	454.4	464.9	476.5	497.4	517.2	534.6	548.6
45°	409.1	396.3	398.6	412.6	431.2	442.8	453.3	475.4	494.0	507.9	521.8
47.5°	381.2	370.8	376.6	390.5	409.1	419.6	431.2	452.1	468.4	483.5	495.1
50°	353.3	345.2	352.2	367.3	385.9	398.6	409.1	427.7	444.0	457.9	466.1
52.5°	325.4	321.9	328.9	344.0	363.8	374.2	384.7	404.5	420.7	432.4	440.5
55°	298.7	296.4	305.7	321.9	342.9	352.2	362.6	381.2	396.3	406.8	413.8
57.5°	269.6	270.8	281.3	299.9	319.6	330.1	339.4	356.8	371.9	380.1	387.0
60°	242.9	244.1	258.0	276.6	297.5	308.0	317.3	333.6	346.3	354.5	360.3
62.5°	213.9	220.8	235.9	253.4	274.3	284.7	295.2	310.3	323.1	330.1	333.6
65°	188.3	196.4	213.9	232.4	253.4	261.5	272.0	287.1	297.5	304.5	308.0
67.5°	163.9	174.3	191.8	211.5	231.3	241.7	249.9	263.8	273.1	278.9	282.4
70°	140.6	153.4	172.0	190.6	209.2	218.5	226.6	240.6	248.7	254.5	256.9
72.5°	119.7	132.5	152.3	169.7	187.1	197.6	204.6	217.3	225.5	230.1	231.3
75°	100.0	113.9	131.3	148.8	166.2	174.3	182.5	192.9	201.1	205.7	206.9
77.5°	82.5	95.3	112.7	129.0	144.1	151.1	159.2	169.7	176.7	180.1	181.3
80°	65.1	77.9	93.0	108.1	122.0	126.7	133.7	143.0	151.1	152.3	152.3
82.5°	48.8	60.4	73.2	86.0	97.6	102.3	106.9	115.1	119.7	120.9	119.7
85°	32.5	40.7	50.0	59.3	68.6	72.1	76.7	82.5	82.5	84.8	81.4
87.5°	16.3	19.8	25.6	29.1	34.9	37.2	39.5	40.7	40.7	40.7	39.5
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°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6
2.5°	655.5	654.3	652.0	652.0	652.0	650.9	650.9	650.9	649.7	649.7
5°	656.7	660.2	664.8	668.3	668.3	668.3	669.4	669.4	670.6	670.6
7.5°	670.6	674.1	678.7	682.2	684.6	685.7	689.2	690.4	692.7	692.7
10°	686.9	692.7	698.5	702.0	705.5	707.8	709.0	713.6	713.6	713.6
12.5°	697.3	706.6	714.8	722.9	726.4	728.7	732.2	734.5	738.0	738.0
15°	709.0	719.4	728.7	738.0	741.5	745.0	749.6	753.1	754.3	755.5
17.5°	714.8	727.6	738.0	747.3	750.8	754.3	761.3	765.9	768.2	769.4
20°	717.1	731.0	743.8	754.3	758.9	762.4	769.4	774.1	777.5	777.5
22.5°	715.9	729.9	743.8	755.5	760.1	763.6	770.6	775.2	777.5	778.7
25°	710.1	724.1	738.0	749.6	754.3	757.8	764.8	769.4	772.9	772.9
27.5°	698.5	713.6	726.4	738.0	741.5	747.3	753.1	757.8	761.3	762.4
30°	682.2	697.3	711.3	720.6	725.2	728.7	734.5	740.3	741.5	742.7
32.5°	662.5	677.6	689.2	698.5	703.2	706.6	712.5	717.1	719.4	718.3
35°	640.4	653.2	664.8	674.1	677.6	679.9	685.7	688.0	690.4	690.4
37.5°	616.0	626.4	638.1	645.0	647.4	649.7	654.3	657.8	657.8	659.0
40°	586.9	598.6	606.7	613.7	616.0	617.1	621.8	623.0	624.1	624.1
42.5°	560.2	569.5	575.3	580.0	582.3	584.6	586.9	586.9	586.9	588.1
45°	531.1	538.1	543.9	547.4	548.6	549.7	550.9	552.1	552.1	552.1
47.5°	503.2	509.1	512.5	516.0	516.0	517.2	517.2	518.4	518.4	518.4
50°	473.0	477.7	480.0	482.3	482.3	482.3	483.5	483.5	483.5	483.5
52.5°	445.1	448.6	449.8	450.9	450.9	452.1	452.1	450.9	452.1	450.9
55°	417.2	419.6	420.7	419.6	420.7	420.7	420.7	419.6	420.7	420.7
57.5°	389.4	390.5	390.5	389.4	390.5	389.4	389.4	390.5	391.7	391.7
60°	361.5	361.5	360.3	360.3	360.3	360.3	360.3	362.6	362.6	363.8
62.5°	334.7	334.7	333.6	332.4	332.4	332.4	333.6	334.7	335.9	335.9
65°	308.0	308.0	306.8	305.7	305.7	305.7	306.8	308.0	309.2	311.5
67.5°	283.6	281.3	281.3	280.1	280.1	280.1	282.4	283.6	284.7	284.7
70°	255.7	255.7	253.4	254.5	254.5	254.5	255.7	256.9	258.0	259.2
72.5°	231.3	230.1	229.0	230.1	230.1	230.1	231.3	233.6	234.8	235.9
75°	206.9	205.7	205.7	204.6	204.6	205.7	205.7	206.9	206.9	206.9
77.5°	181.3	177.8	176.7	174.3	174.3	174.3	174.3	174.3	174.3	174.3
80°	151.1	146.4	143.0	143.0	141.8	141.8	141.8	141.8	140.6	141.8
82.5°	116.2	113.9	110.4	109.3	109.3	109.3	106.9	106.9	106.9	109.3
85°	79.0	77.9	74.4	73.2	73.2	72.1	70.9	70.9	72.1	69.7
87.5°	38.4	37.2	34.9	34.9	34.9	33.7	33.7	32.5	33.7	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)