

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: P178871

Luminaire Tested: **22SR-LD2-29-C-UNV-EL14W-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P178871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34290)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-29-C-UNV-EL14W-L835-CD1-U
Description: METALUX SKYRIDGE 2X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.4 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.47 / 1.44
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

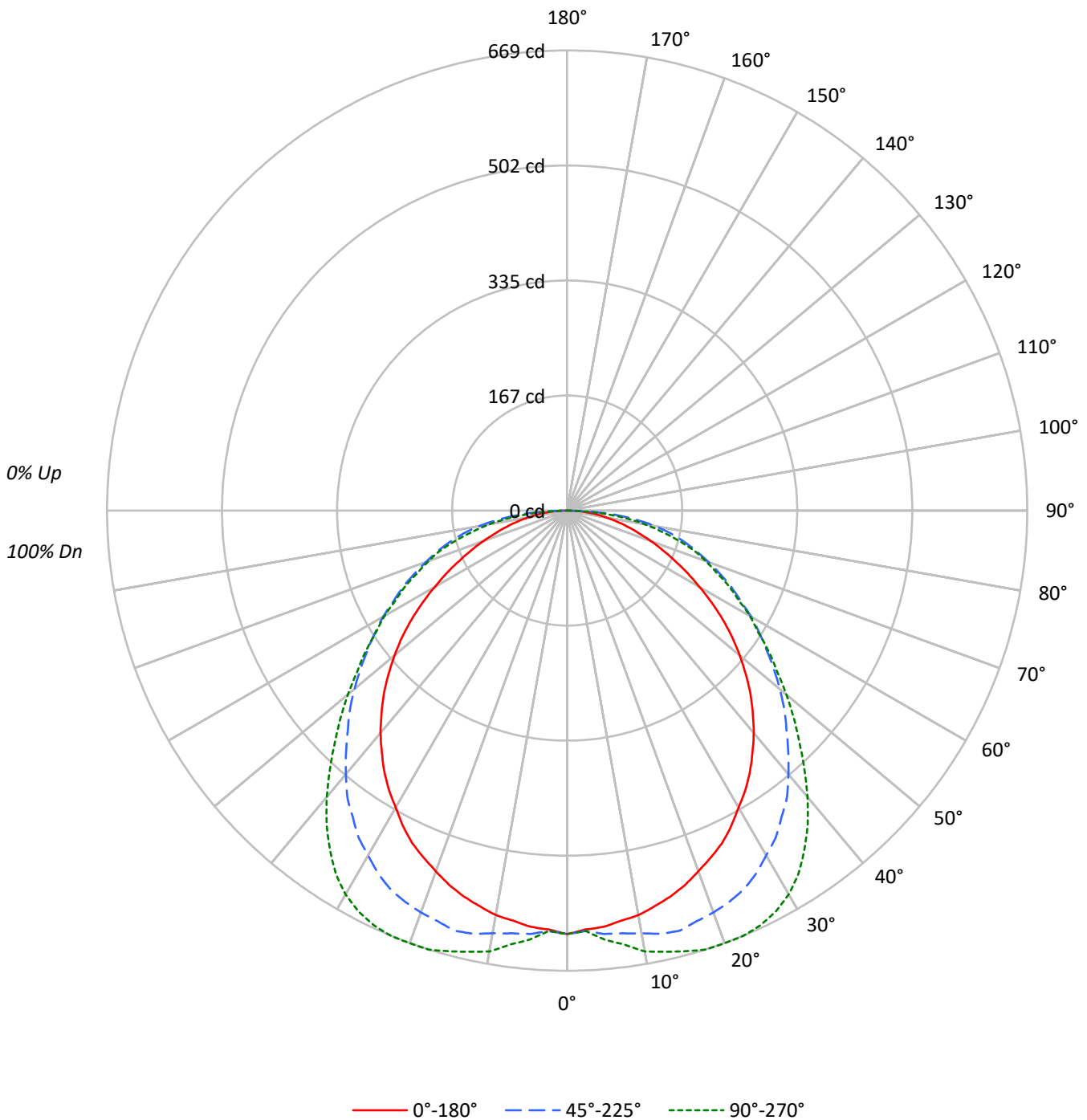
Input Watts (W): 12.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1657	1657	1657
5°	1641	1669	1691
10°	1632	1705	1778
15°	1618	1762	1848
20°	1598	1781	1917
25°	1583	1804	1975
30°	1549	1798	2003
35°	1522	1786	1976
40°	1483	1758	1910
45°	1434	1716	1818
50°	1371	1690	1742
55°	1295	1662	1681
60°	1197	1662	1652
65°	1102	1678	1652
70°	1020	1718	1685
75°	942	1841	1734
80°	894	2010	1787
85°	889	2164	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.0
10°-20°	176.6	9.0
20°-30°	276.8	14.2
30°-40°	334.5	17.1
40°-50°	337.5	17.3
50°-60°	300.5	15.4
60°-70°	240.4	12.3
70°-80°	165.9	8.5
80°-90°	62.3	3.2
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°	512.5	26.2
0°-40°	846.9	43.4
0°-60°	1484.8	76.0
0°-90°	1953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	608	608	618	628	626	58
15°	581	589	632	655	663	164
25°	533	554	608	653	665	245
35°	463	482	544	587	601	289
45°	377	397	451	476	478	290
55°	276	311	354	360	358	246
65°	173	231	264	260	260	172
75°	91	150	177	171	167	97
85°	29	62	70	60	56	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°	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
2.5°	609.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6
5°	607.5	609.6	607.5	607.5	607.5	607.5	607.5	607.5	611.6	613.6	617.8
7.5°	601.4	603.4	601.4	601.4	603.4	603.4	607.5	613.6	617.8	619.9	619.9
10°	597.2	599.2	595.1	595.1	603.4	607.5	609.6	611.6	609.6	615.7	624.0
12.5°	589.0	589.0	584.9	593.1	601.4	601.4	599.2	603.4	613.6	624.0	630.1
15°	580.7	578.7	576.6	586.9	589.0	589.0	593.1	605.5	613.6	621.9	632.3
17.5°	570.5	568.3	568.3	578.7	578.7	584.9	593.1	601.4	611.6	621.9	626.0
20°	558.1	554.0	560.1	562.2	570.5	578.7	582.8	593.1	603.4	611.6	621.9
22.5°	545.7	539.6	547.8	547.8	562.2	566.3	572.5	584.9	593.1	605.5	615.7
25°	533.3	527.2	533.3	535.4	549.8	554.0	562.2	570.5	582.8	595.1	607.5
27.5°	516.9	508.7	514.8	521.0	533.3	539.6	543.7	556.1	570.5	582.8	595.1
30°	498.4	492.2	494.3	504.5	516.9	521.0	527.2	539.6	554.0	566.3	578.7
32.5°	481.9	473.6	473.6	486.0	498.4	500.4	508.7	523.1	535.4	549.8	564.2
35°	463.4	455.1	455.1	465.4	475.8	481.9	488.0	502.5	516.9	531.3	543.7
37.5°	442.7	434.5	436.6	446.9	455.1	461.3	467.5	481.9	494.3	510.7	525.2
40°	422.2	414.0	416.0	424.2	434.5	440.7	446.9	461.3	475.8	488.0	500.4
42.5°	399.6	393.3	395.4	403.6	411.8	420.1	426.3	438.6	453.1	465.4	475.8
45°	376.8	370.7	372.8	380.9	391.3	397.4	403.6	418.1	430.4	442.7	451.0
47.5°	352.2	348.0	350.0	358.3	370.7	374.8	380.9	395.4	407.7	418.1	428.3
50°	327.4	323.3	327.4	335.7	348.0	354.2	360.4	372.8	385.1	395.4	403.6
52.5°	302.7	298.6	304.8	315.1	325.4	331.5	339.8	352.2	362.4	372.8	378.9
55°	276.0	276.0	282.1	292.5	304.8	311.0	317.1	331.5	341.9	350.0	354.2
57.5°	249.2	251.2	259.5	271.8	284.2	290.4	298.6	308.9	319.3	327.4	331.5
60°	222.4	226.6	236.8	251.2	263.6	269.7	276.0	288.4	296.5	304.8	308.9
62.5°	197.7	203.9	216.2	228.6	243.0	249.2	255.3	267.7	276.0	280.1	284.2
65°	173.0	181.3	193.5	208.0	222.4	230.7	234.8	247.1	253.3	259.5	263.6
67.5°	150.4	160.6	175.0	189.4	201.8	210.0	216.2	226.6	232.7	236.8	240.9
70°	129.7	140.0	154.5	168.9	183.3	189.4	195.7	203.9	212.2	216.2	218.3
72.5°	109.1	121.5	138.0	150.4	164.8	170.9	175.0	185.4	191.5	195.7	197.7
75°	90.6	103.0	119.5	131.8	146.2	150.4	154.5	164.8	170.9	175.0	177.1
77.5°	74.2	86.5	100.9	113.2	125.6	131.8	135.9	144.1	148.2	152.4	154.5
80°	57.7	70.1	84.4	94.7	105.1	109.1	115.3	121.5	125.6	129.7	129.7
82.5°	43.3	53.5	65.9	74.2	82.3	86.5	90.6	98.8	100.9	103.0	100.9
85°	28.8	35.0	43.3	51.5	57.7	61.8	63.8	67.9	72.1	70.1	70.1
87.5°	14.4	16.5	22.6	24.8	28.8	30.9	32.9	35.0	32.9	32.9	30.9
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°	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
2.5°	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6
5°	621.9	624.0	626.0	626.0	628.1	626.0	626.0	626.0	626.0	626.0
7.5°	617.8	621.9	624.0	628.1	630.1	632.3	634.3	636.4	636.4	636.4
10°	632.3	636.4	640.4	644.5	644.5	644.5	648.7	650.8	650.8	650.8
12.5°	634.3	640.4	646.6	650.8	652.8	654.9	654.9	654.9	656.9	656.9
15°	638.4	642.5	646.6	652.8	654.9	656.9	659.0	663.2	663.2	663.2
17.5°	636.4	642.5	648.7	654.9	659.0	661.0	665.2	669.3	669.3	669.3
20°	630.1	640.4	648.7	654.9	656.9	659.0	663.2	667.2	669.3	669.3
22.5°	626.0	634.3	644.5	652.8	654.9	656.9	661.0	665.2	669.3	669.3
25°	617.8	628.1	638.4	646.6	652.8	654.9	659.0	663.2	663.2	665.2
27.5°	607.5	617.8	630.1	636.4	638.4	642.5	648.7	652.8	654.9	656.9
30°	595.1	605.5	615.7	624.0	626.0	630.1	636.4	640.4	642.5	644.5
32.5°	576.6	589.0	597.2	607.5	611.6	613.6	617.8	621.9	624.0	626.0
35°	558.1	568.3	576.6	584.9	586.9	591.0	595.1	597.2	601.4	601.4
37.5°	535.4	545.7	554.0	560.1	562.2	564.2	570.5	572.5	574.6	574.6
40°	510.7	521.0	527.2	533.3	535.4	535.4	539.6	543.7	543.7	543.7
42.5°	486.0	492.2	498.4	502.5	506.5	506.5	508.7	510.7	510.7	510.7
45°	461.3	467.5	469.5	473.6	475.8	475.8	477.8	477.8	479.8	477.8
47.5°	434.5	438.6	440.7	444.9	444.9	444.9	444.9	446.9	446.9	446.9
50°	407.7	411.8	414.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
52.5°	383.1	385.1	387.2	387.2	387.2	387.2	387.2	385.1	385.1	385.1
55°	358.3	360.4	360.4	358.3	360.4	358.3	358.3	356.3	358.3	358.3
57.5°	333.6	335.7	333.6	333.6	333.6	331.5	331.5	331.5	331.5	329.5
60°	308.9	311.0	308.9	308.9	306.9	306.9	306.9	304.8	304.8	306.9
62.5°	288.4	286.2	284.2	284.2	282.1	282.1	280.1	280.1	280.1	280.1
65°	263.6	263.6	261.6	259.5	259.5	259.5	257.5	257.5	257.5	259.5
67.5°	243.0	240.9	238.9	236.8	236.8	234.8	234.8	234.8	234.8	234.8
70°	220.3	218.3	216.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2
72.5°	197.7	195.7	195.7	193.5	193.5	193.5	191.5	191.5	191.5	193.5
75°	177.1	175.0	173.0	170.9	170.9	170.9	168.9	168.9	168.9	166.8
77.5°	154.5	152.4	148.2	146.2	144.1	144.1	142.1	142.1	142.1	140.0
80°	127.7	123.6	121.5	119.5	117.4	117.4	115.3	115.3	115.3	115.3
82.5°	98.8	96.8	94.7	92.7	88.6	88.6	86.5	88.6	88.6	86.5
85°	67.9	65.9	61.8	59.7	59.7	57.7	57.7	57.7	55.6	55.6
87.5°	30.9	28.8	28.8	26.8	24.8	24.8	24.8	22.6	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)