

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: P183854

Luminaire Tested: **22SR-LD2-20-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183854
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2047.1 lumens
Efficiency: N/A
Efficacy: 132.9 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

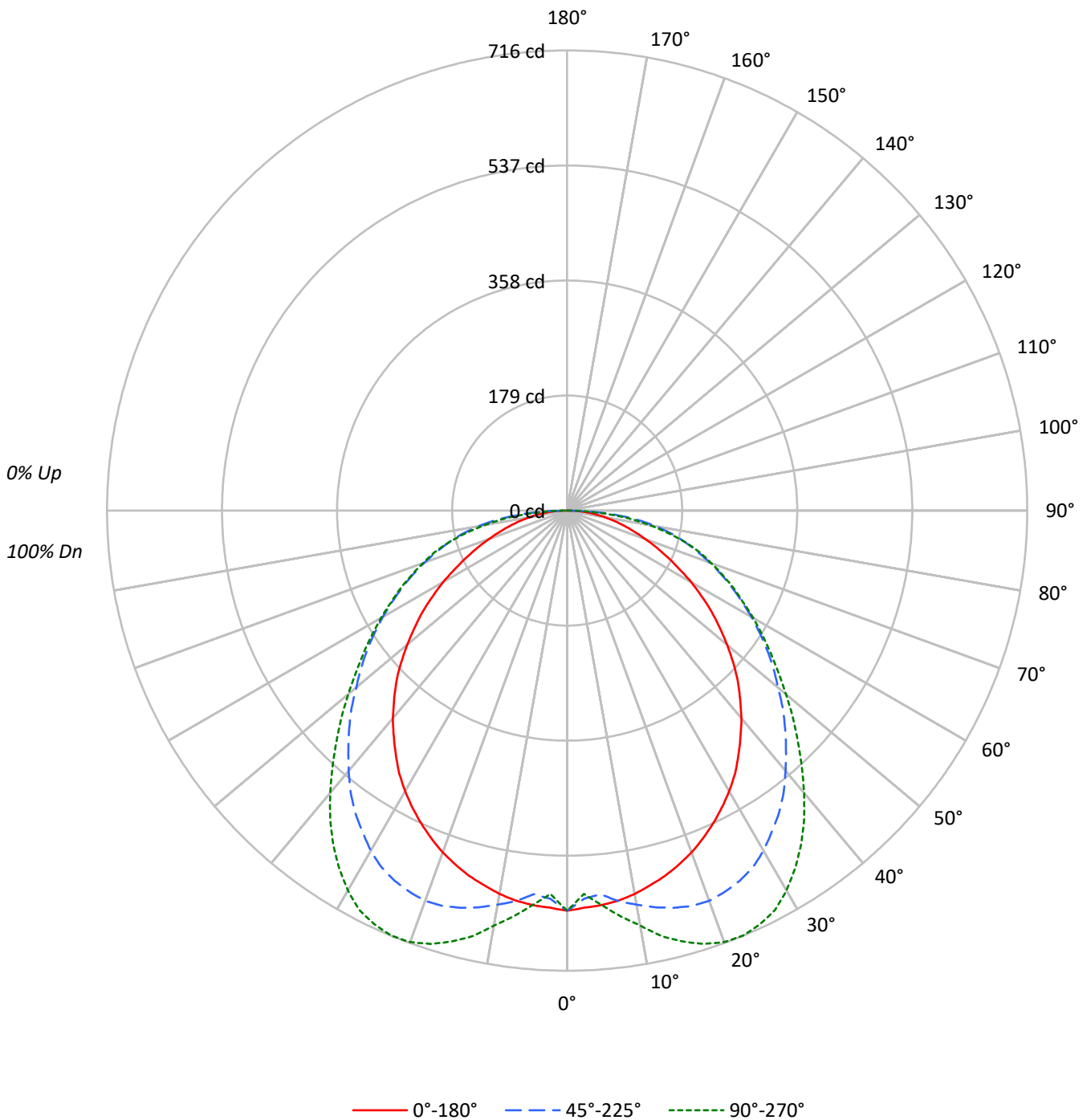
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1675	1675	1675
5°	1665	1618	1665
10°	1655	1701	1792
15°	1640	1782	1934
20°	1621	1850	2046
25°	1595	1887	2109
30°	1566	1898	2121
35°	1526	1888	2084
40°	1482	1857	2015
45°	1431	1825	1931
50°	1359	1793	1860
55°	1288	1784	1814
60°	1201	1782	1799
65°	1102	1802	1822
70°	1017	1857	1874
75°	954	1976	1976
80°	927	2168	2019
85°	923	2309	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	2.9
10°-20°	179.7	8.8
20°-30°	287.2	14.0
30°-40°	347.3	17.0
40°-50°	352.3	17.2
50°-60°	317.3	15.5
60°-70°	256.9	12.5
70°-80°	179.3	8.8
80°-90°	68.5	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°	525.5	25.7
0°-40°	872.8	42.6
0°-60°	1542.4	75.3
0°-90°	2047.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	616	597	599	614	616	58
15°	588	587	640	681	694	166
25°	537	555	636	693	710	247
35°	465	488	575	623	634	291
45°	376	407	480	504	507	289
55°	274	324	380	387	387	245
65°	173	240	283	281	286	172
75°	92	160	190	188	190	98
85°	30	66	75	67	64	33
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°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	618.4	619.4	618.4	617.3	616.2	615.2	614.1	612.0	608.8	606.6	604.5
5°	616.2	616.2	612.0	605.6	600.2	597.0	593.8	591.7	592.7	595.9	599.1
7.5°	612.0	609.8	600.2	591.7	587.4	587.4	589.5	597.0	604.5	609.8	613.0
10°	605.6	601.3	587.4	581.0	586.3	590.6	595.9	603.4	607.7	614.1	622.6
12.5°	597.0	590.6	574.6	576.7	587.4	592.7	595.9	602.4	613.0	623.7	632.3
15°	588.5	577.8	563.9	573.5	584.2	587.4	591.7	604.5	616.2	626.9	639.7
17.5°	577.8	563.9	554.3	566.0	575.7	582.1	589.5	602.4	616.2	631.2	645.1
20°	566.0	550.0	544.7	557.5	569.2	576.7	583.1	599.1	615.2	630.1	646.1
22.5°	552.2	532.9	532.9	544.7	559.6	566.0	574.6	592.7	608.8	625.8	641.9
25°	537.2	516.9	519.0	531.9	546.8	555.4	563.9	582.1	601.3	617.3	635.5
27.5°	521.2	499.8	504.1	516.9	530.8	541.5	551.1	570.3	588.5	607.7	625.8
30°	504.1	482.7	485.9	498.8	514.8	525.5	535.1	554.3	573.5	593.8	610.9
32.5°	485.9	464.6	467.8	480.6	497.7	507.3	516.9	536.1	557.5	576.7	592.7
35°	464.6	445.4	448.6	461.4	478.5	488.1	497.7	519.0	538.3	556.4	574.6
37.5°	443.2	425.1	427.2	441.1	459.2	468.9	478.5	498.8	518.0	536.1	553.2
40°	421.9	404.8	408.0	420.8	438.9	447.5	457.1	478.5	497.7	514.8	528.7
42.5°	398.4	384.5	387.7	400.5	417.6	427.2	437.9	457.1	475.3	491.3	504.1
45°	375.9	364.2	366.3	379.1	396.2	406.9	416.5	436.8	453.9	466.7	479.5
47.5°	350.3	340.7	346.0	358.8	375.9	385.5	396.2	415.5	430.4	444.3	455.0
50°	324.7	317.2	323.6	337.5	354.6	366.3	375.9	393.0	408.0	420.8	428.3
52.5°	299.0	295.8	302.2	316.1	334.3	343.9	353.5	371.7	386.6	397.3	404.8
55°	274.5	272.3	280.9	295.8	315.1	323.6	333.2	350.3	364.2	373.8	380.2
57.5°	247.8	248.8	258.5	275.5	293.7	303.3	311.9	327.9	341.8	349.2	355.6
60°	223.2	224.3	237.1	254.2	273.4	283.0	291.6	306.5	318.3	325.7	331.1
62.5°	196.5	202.9	216.8	232.8	252.0	261.7	271.3	285.2	296.9	303.3	306.5
65°	173.0	180.5	196.5	213.6	232.8	240.3	249.9	263.8	273.4	279.8	283.0
67.5°	150.6	160.2	176.2	194.4	212.5	222.1	229.6	242.4	251.0	256.3	259.5
70°	129.2	141.0	158.1	175.2	192.2	200.8	208.3	221.1	228.6	233.9	236.0
72.5°	110.0	121.8	139.9	155.9	171.9	181.6	188.0	199.7	207.2	211.5	212.5
75°	91.8	104.7	120.7	136.7	152.7	160.2	167.7	177.3	184.8	189.0	190.1
77.5°	75.8	87.6	103.6	118.5	132.4	138.8	146.3	155.9	162.3	165.5	166.6
80°	59.8	71.6	85.4	99.3	112.1	116.4	122.8	131.4	138.8	139.9	139.9
82.5°	44.9	55.5	67.3	79.0	89.7	94.0	98.3	105.7	110.0	111.1	110.0
85°	29.9	37.4	45.9	54.5	63.0	66.2	70.5	75.8	75.8	78.0	74.8
87.5°	15.0	18.2	23.5	26.7	32.0	34.2	36.3	37.4	37.4	37.4	36.3
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°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	602.4	601.3	599.1	599.1	599.1	598.1	598.1	598.1	597.0	597.0
5°	603.4	606.6	610.9	614.1	614.1	614.1	615.2	615.2	616.2	616.2
7.5°	616.2	619.4	623.7	626.9	629.1	630.1	633.3	634.4	636.5	636.5
10°	631.2	636.5	641.9	645.1	648.3	650.4	651.5	655.8	655.8	655.8
12.5°	640.8	649.3	656.8	664.3	667.5	669.6	672.8	675.0	678.2	678.2
15°	651.5	661.1	669.6	678.2	681.4	684.6	688.9	692.1	693.1	694.2
17.5°	656.8	668.6	678.2	686.7	689.9	693.1	699.5	703.8	706.0	707.0
20°	659.0	671.8	683.5	693.1	697.4	700.6	707.0	711.3	714.5	714.5
22.5°	657.9	670.7	683.5	694.2	698.5	701.7	708.1	712.4	714.5	715.6
25°	652.6	665.4	678.2	688.9	693.1	696.3	702.7	707.0	710.2	710.2
27.5°	641.9	655.8	667.5	678.2	681.4	686.7	692.1	696.3	699.5	700.6
30°	626.9	640.8	653.6	662.2	666.4	669.6	675.0	680.3	681.4	682.5
32.5°	608.8	622.6	633.3	641.9	646.1	649.3	654.7	659.0	661.1	660.0
35°	588.5	600.2	610.9	619.4	622.6	624.8	630.1	632.3	634.4	634.4
37.5°	566.0	575.7	586.3	592.7	594.9	597.0	601.3	604.5	604.5	605.6
40°	539.3	550.0	557.5	563.9	566.0	567.1	571.4	572.4	573.5	573.5
42.5°	514.8	523.3	528.7	532.9	535.1	537.2	539.3	539.3	539.3	540.4
45°	488.1	494.5	499.8	503.0	504.1	505.2	506.2	507.3	507.3	507.3
47.5°	462.4	467.8	471.0	474.2	474.2	475.3	475.3	476.3	476.3	476.3
50°	434.7	438.9	441.1	443.2	443.2	443.2	444.3	444.3	444.3	444.3
52.5°	409.0	412.2	413.3	414.4	414.4	415.5	415.5	414.4	415.5	414.4
55°	383.4	385.5	386.6	385.5	386.6	386.6	386.6	385.5	386.6	386.6
57.5°	357.8	358.8	358.8	357.8	358.8	357.8	357.8	358.8	359.9	359.9
60°	332.1	332.1	331.1	331.1	331.1	331.1	331.1	333.2	333.2	334.3
62.5°	307.6	307.6	306.5	305.4	305.4	305.4	306.5	307.6	308.7	308.7
65°	283.0	283.0	282.0	280.9	280.9	280.9	282.0	283.0	284.1	286.2
67.5°	260.6	258.5	258.5	257.4	257.4	257.4	259.5	260.6	261.7	261.7
70°	235.0	235.0	232.8	233.9	233.9	233.9	235.0	236.0	237.1	238.2
72.5°	212.5	211.5	210.4	211.5	211.5	211.5	212.5	214.7	215.7	216.8
75°	190.1	189.0	189.0	188.0	188.0	189.0	189.0	190.1	190.1	190.1
77.5°	166.6	163.4	162.3	160.2	160.2	160.2	160.2	160.2	160.2	160.2
80°	138.8	134.6	131.4	131.4	130.3	130.3	130.3	130.3	129.2	130.3
82.5°	106.8	104.7	101.5	100.4	100.4	100.4	98.3	98.3	98.3	100.4
85°	72.6	71.6	68.4	67.3	67.3	66.2	65.1	65.1	66.2	64.1
87.5°	35.2	34.2	32.0	32.0	32.0	31.0	31.0	29.9	31.0	29.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)