

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: P183848

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183848
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-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: 1916.9 lumens
Efficiency: N/A
Efficacy: 130.4 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

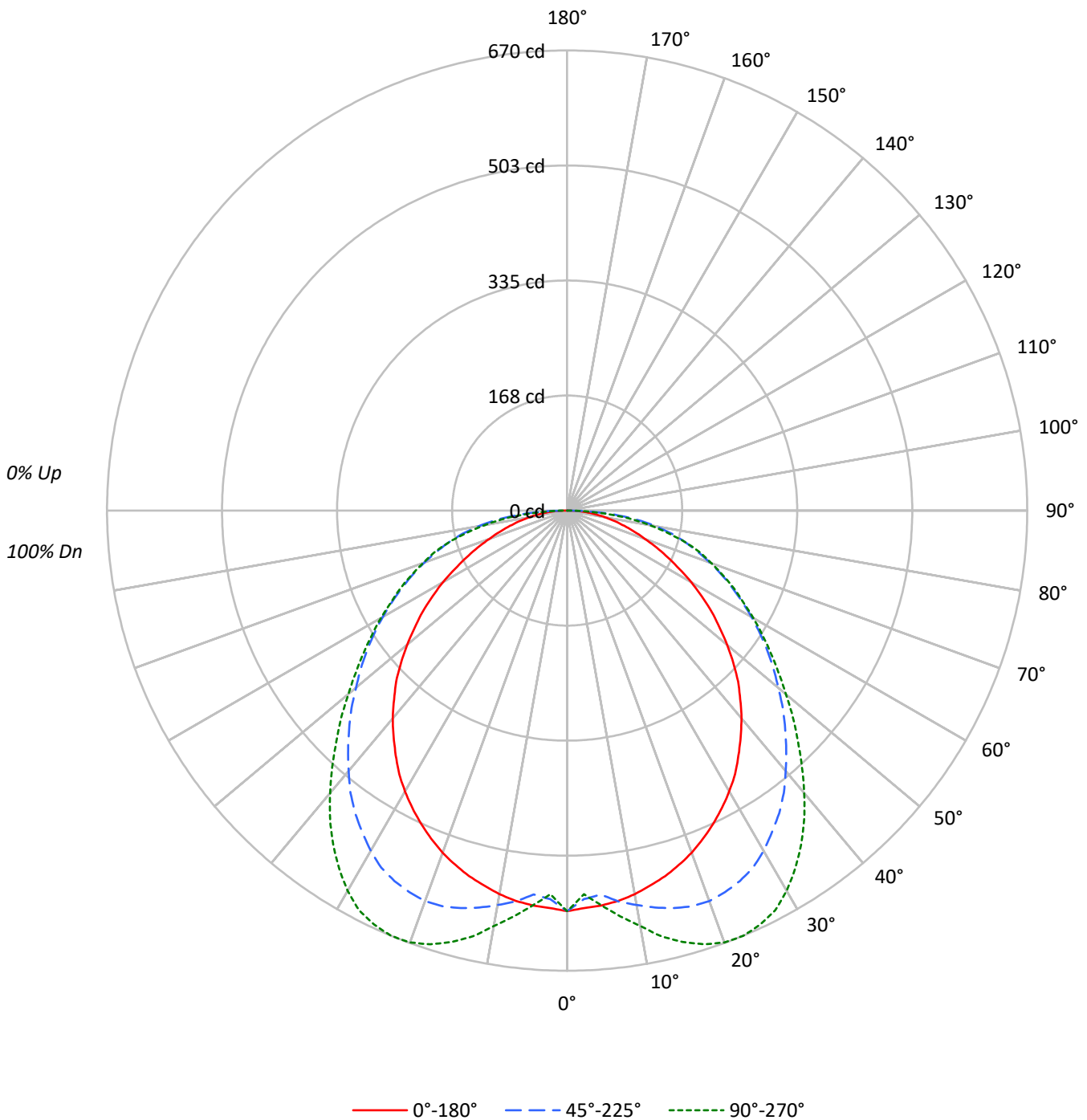
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1569	1569	1569
5°	1559	1516	1559
10°	1550	1593	1678
15°	1535	1669	1811
20°	1518	1733	1916
25°	1494	1767	1975
30°	1467	1778	1986
35°	1429	1768	1952
40°	1388	1739	1887
45°	1340	1709	1808
50°	1273	1679	1742
55°	1206	1670	1698
60°	1125	1668	1685
65°	1032	1687	1706
70°	952	1739	1755
75°	894	1851	1851
80°	868	2030	1891
85°	865	2161	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	2.9
10°-20°	168.3	8.8
20°-30°	268.9	14.0
30°-40°	325.3	17.0
40°-50°	329.9	17.2
50°-60°	297.1	15.5
60°-70°	240.5	12.5
70°-80°	167.9	8.8
80°-90°	64.2	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°	492.1	25.7
0°-40°	817.3	42.6
0°-60°	1444.4	75.3
0°-90°	1916.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	577	559	561	575	577	55
15°	551	550	599	638	650	155
25°	503	520	595	649	665	232
35°	435	457	538	583	594	272
45°	352	381	449	472	475	271
55°	257	303	356	362	362	229
65°	162	225	265	263	268	161
75°	86	150	178	176	178	92
85°	28	62	70	63	60	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°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	579.1	580.1	579.1	578.1	577.1	576.1	575.1	573.1	570.1	568.1	566.1
5°	577.1	577.1	573.1	567.1	562.1	559.1	556.1	554.1	555.1	558.1	561.1
7.5°	573.1	571.1	562.1	554.1	550.1	550.1	552.1	559.1	566.1	571.1	574.1
10°	567.1	563.1	550.1	544.1	549.1	553.1	558.1	565.1	569.1	575.1	583.1
12.5°	559.1	553.1	538.1	540.1	550.1	555.1	558.1	564.1	574.1	584.1	592.1
15°	551.1	541.1	528.1	537.1	547.1	550.1	554.1	566.1	577.1	587.1	599.1
17.5°	541.1	528.1	519.1	530.1	539.1	545.1	552.1	564.1	577.1	591.1	604.1
20°	530.1	515.1	510.1	522.1	533.1	540.1	546.1	561.1	576.1	590.1	605.1
22.5°	517.1	499.1	499.1	510.1	524.1	530.1	538.1	555.1	570.1	586.1	601.1
25°	503.1	484.1	486.1	498.1	512.1	520.1	528.1	545.1	563.1	578.1	595.1
27.5°	488.1	468.1	472.1	484.1	497.1	507.1	516.1	534.1	551.1	569.1	586.1
30°	472.1	452.0	455.0	467.1	482.1	492.1	501.1	519.1	537.1	556.1	572.1
32.5°	455.0	435.0	438.0	450.0	466.1	475.1	484.1	502.1	522.1	540.1	555.1
35°	435.0	417.0	420.0	432.0	448.0	457.0	466.1	486.1	504.1	521.1	538.1
37.5°	415.0	398.0	400.0	413.0	430.0	439.0	448.0	467.1	485.1	502.1	518.1
40°	395.0	379.0	382.0	394.0	411.0	419.0	428.0	448.0	466.1	482.1	495.1
42.5°	373.0	360.0	363.0	375.0	391.0	400.0	410.0	428.0	445.0	460.0	472.1
45°	352.0	341.0	343.0	355.0	371.0	381.0	390.0	409.0	425.0	437.0	449.0
47.5°	328.0	319.0	324.0	336.0	352.0	361.0	371.0	389.0	403.0	416.0	426.0
50°	304.0	297.0	303.0	316.0	332.0	343.0	352.0	368.0	382.0	394.0	401.0
52.5°	280.0	277.0	283.0	296.0	313.0	322.0	331.0	348.0	362.0	372.0	379.0
55°	257.0	255.0	263.0	277.0	295.0	303.0	312.0	328.0	341.0	350.0	356.0
57.5°	232.0	233.0	242.0	258.0	275.0	284.0	292.0	307.0	320.0	327.0	333.0
60°	209.0	210.0	222.0	238.0	256.0	265.0	273.0	287.0	298.0	305.0	310.0
62.5°	184.0	190.0	203.0	218.0	236.0	245.0	254.0	267.0	278.0	284.0	287.0
65°	162.0	169.0	184.0	200.0	218.0	225.0	234.0	247.0	256.0	262.0	265.0
67.5°	141.0	150.0	165.0	182.0	199.0	208.0	215.0	227.0	235.0	240.0	243.0
70°	121.0	132.0	148.0	164.0	180.0	188.0	195.0	207.0	214.0	219.0	221.0
72.5°	103.0	114.0	131.0	146.0	161.0	170.0	176.0	187.0	194.0	198.0	199.0
75°	86.0	98.0	113.0	128.0	143.0	150.0	157.0	166.0	173.0	177.0	178.0
77.5°	71.0	82.0	97.0	111.0	124.0	130.0	137.0	146.0	152.0	155.0	156.0
80°	56.0	67.0	80.0	93.0	105.0	109.0	115.0	123.0	130.0	131.0	131.0
82.5°	42.0	52.0	63.0	74.0	84.0	88.0	92.0	99.0	103.0	104.0	103.0
85°	28.0	35.0	43.0	51.0	59.0	62.0	66.0	71.0	71.0	73.0	70.0
87.5°	14.0	17.0	22.0	25.0	30.0	32.0	34.0	35.0	35.0	35.0	34.0
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°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	564.1	563.1	561.1	561.1	561.1	560.1	560.1	560.1	559.1	559.1
5°	565.1	568.1	572.1	575.1	575.1	575.1	576.1	576.1	577.1	577.1
7.5°	577.1	580.1	584.1	587.1	589.1	590.1	593.1	594.1	596.1	596.1
10°	591.1	596.1	601.1	604.1	607.1	609.1	610.1	614.1	614.1	614.1
12.5°	600.1	608.1	615.1	622.1	625.1	627.1	630.1	632.1	635.1	635.1
15°	610.1	619.1	627.1	635.1	638.1	641.1	645.1	648.1	649.1	650.1
17.5°	615.1	626.1	635.1	643.1	646.1	649.1	655.1	659.1	661.1	662.1
20°	617.1	629.1	640.1	649.1	653.1	656.1	662.1	666.1	669.1	669.1
22.5°	616.1	628.1	640.1	650.1	654.1	657.1	663.1	667.1	669.1	670.1
25°	611.1	623.1	635.1	645.1	649.1	652.1	658.1	662.1	665.1	665.1
27.5°	601.1	614.1	625.1	635.1	638.1	643.1	648.1	652.1	655.1	656.1
30°	587.1	600.1	612.1	620.1	624.1	627.1	632.1	637.1	638.1	639.1
32.5°	570.1	583.1	593.1	601.1	605.1	608.1	613.1	617.1	619.1	618.1
35°	551.1	562.1	572.1	580.1	583.1	585.1	590.1	592.1	594.1	594.1
37.5°	530.1	539.1	549.1	555.1	557.1	559.1	563.1	566.1	566.1	567.1
40°	505.1	515.1	522.1	528.1	530.1	531.1	535.1	536.1	537.1	537.1
42.5°	482.1	490.1	495.1	499.1	501.1	503.1	505.1	505.1	505.1	506.1
45°	457.0	463.1	468.1	471.1	472.1	473.1	474.1	475.1	475.1	475.1
47.5°	433.0	438.0	441.0	444.0	444.0	445.0	445.0	446.0	446.0	446.0
50°	407.0	411.0	413.0	415.0	415.0	415.0	416.0	416.0	416.0	416.0
52.5°	383.0	386.0	387.0	388.0	388.0	389.0	389.0	388.0	389.0	388.0
55°	359.0	361.0	362.0	361.0	362.0	362.0	362.0	361.0	362.0	362.0
57.5°	335.0	336.0	336.0	335.0	336.0	335.0	335.0	336.0	337.0	337.0
60°	311.0	311.0	310.0	310.0	310.0	310.0	310.0	312.0	312.0	313.0
62.5°	288.0	288.0	287.0	286.0	286.0	286.0	287.0	288.0	289.0	289.0
65°	265.0	265.0	264.0	263.0	263.0	263.0	264.0	265.0	266.0	268.0
67.5°	244.0	242.0	242.0	241.0	241.0	241.0	243.0	244.0	245.0	245.0
70°	220.0	220.0	218.0	219.0	219.0	219.0	220.0	221.0	222.0	223.0
72.5°	199.0	198.0	197.0	198.0	198.0	198.0	199.0	201.0	202.0	203.0
75°	178.0	177.0	177.0	176.0	176.0	177.0	177.0	178.0	178.0	178.0
77.5°	156.0	153.0	152.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
80°	130.0	126.0	123.0	123.0	122.0	122.0	122.0	122.0	121.0	122.0
82.5°	100.0	98.0	95.0	94.0	94.0	94.0	92.0	92.0	92.0	94.0
85°	68.0	67.0	64.0	63.0	63.0	62.0	61.0	61.0	62.0	60.0
87.5°	33.0	32.0	30.0	30.0	30.0	29.0	29.0	28.0	29.0	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)