

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: P188297

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24792)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-25-C-UNV-L850-CD1-MR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1633.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

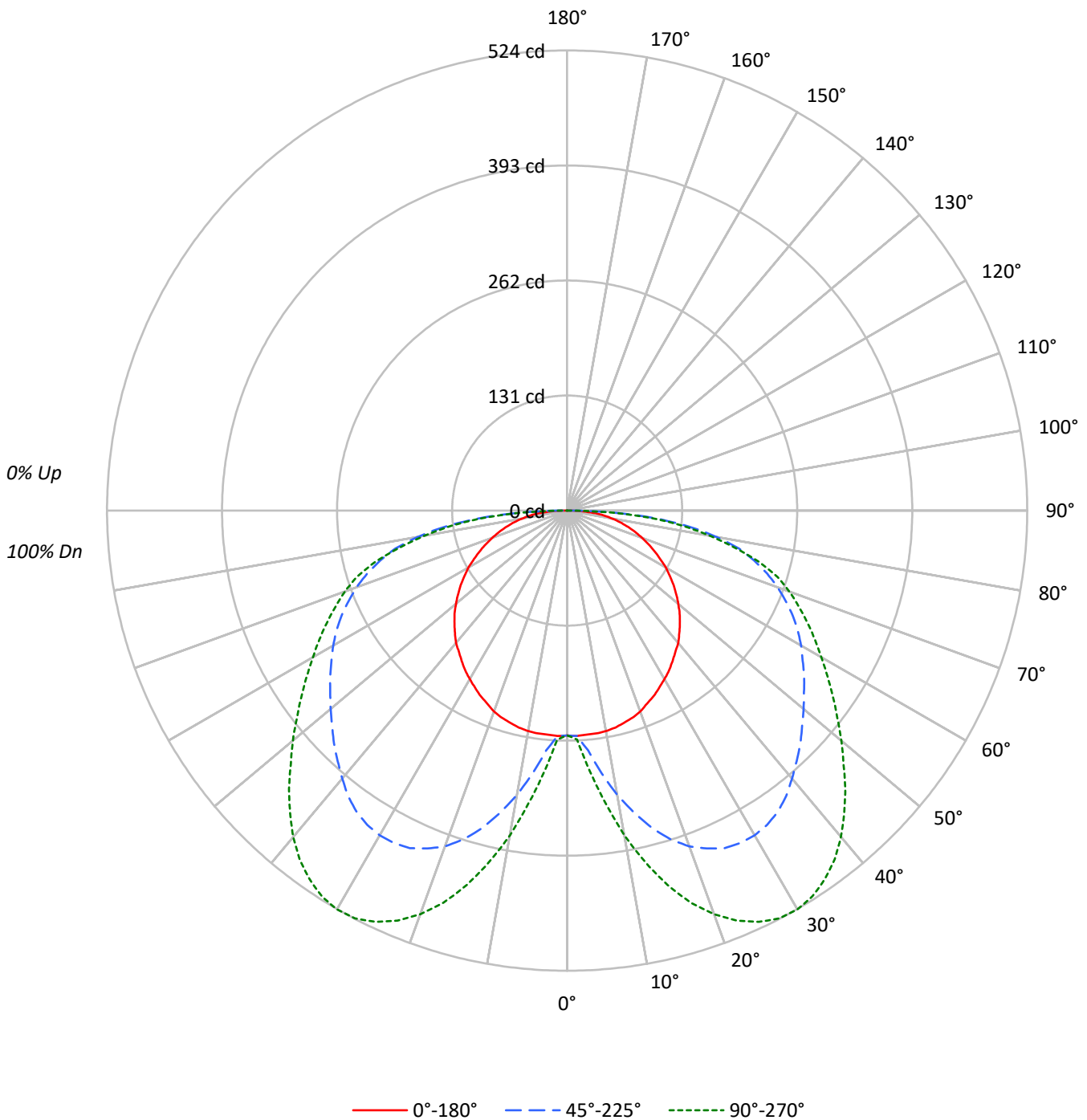
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	35
6	65	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	750	750	750
5°	753	806	876
10°	759	978	1117
15°	759	1136	1339
20°	760	1269	1525
25°	754	1371	1670
30°	750	1444	1774
35°	748	1497	1831
40°	753	1523	1856
45°	752	1556	1856
50°	753	1602	1859
55°	756	1683	1888
60°	761	1803	1959
65°	761	1967	2092
70°	777	2185	2307
75°	811	2497	2563
80°	871	2917	2788
85°	995	3372	3180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	1.7
10°-20°	102.5	6.3
20°-30°	185.6	11.4
30°-40°	246.7	15.1
40°-50°	271.1	16.6
50°-60°	268.9	16.5
60°-70°	247.5	15.2
70°-80°	197.6	12.1
80°-90°	85.3	5.2
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°	315.9	19.3
0°-40°	562.5	34.4
0°-60°	1102.5	67.5
0°-90°	1633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	256	256	256	256	256	
5°	256	258	274	292	298	24
15°	250	300	374	424	441	71
25°	233	321	424	492	517	107
35°	209	311	418	488	512	131
45°	182	281	375	430	448	140
55°	148	246	330	362	370	132
65°	110	208	284	298	302	109
75°	72	159	221	225	226	76
85°	30	73	100	95	95	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	256.9	256.9	256.9	256.9	256.0	256.0	256.0	256.0	256.0	256.9	257.9
5°	256.0	256.0	256.0	256.9	256.9	258.8	261.7	265.5	269.3	274.1	279.9
7.5°	256.0	256.0	256.0	256.9	261.7	269.3	277.9	286.5	294.2	301.8	310.4
10°	255.0	255.0	255.0	260.8	271.3	283.7	296.1	307.6	318.1	328.6	339.1
12.5°	253.1	253.1	256.0	266.5	281.8	298.0	311.4	326.7	340.0	352.4	364.9
15°	250.2	250.2	256.0	272.2	291.3	308.5	326.7	343.8	360.1	374.4	388.7
17.5°	247.4	247.4	256.9	277.0	298.0	319.0	339.1	358.2	376.3	392.6	407.8
20°	243.6	243.6	256.9	280.8	303.7	326.7	348.6	368.7	388.7	406.9	423.1
22.5°	237.8	239.7	256.9	282.7	307.6	331.4	354.4	377.3	398.3	416.4	434.6
25°	233.1	235.9	256.0	282.7	308.5	334.3	359.1	382.1	404.0	424.1	442.2
27.5°	227.3	231.1	254.1	281.8	308.5	334.3	360.1	384.0	406.9	426.9	446.0
30°	221.6	226.4	251.2	278.9	306.6	333.3	358.2	383.0	405.9	426.9	446.0
32.5°	215.9	221.6	246.4	275.1	302.8	329.5	355.3	380.1	403.1	424.1	443.2
35°	209.2	215.9	241.6	270.3	298.0	324.7	349.6	374.4	397.3	418.4	436.5
37.5°	202.5	210.1	235.9	264.6	291.3	318.1	342.9	366.8	389.7	409.8	427.9
40°	196.8	203.4	229.2	257.9	284.6	310.4	335.3	358.2	380.1	398.3	416.4
42.5°	189.1	197.7	222.5	251.2	277.0	301.8	326.7	348.6	369.6	386.8	404.0
45°	181.5	191.0	215.9	242.6	269.3	293.2	317.1	339.1	358.2	375.4	390.7
47.5°	173.8	183.4	208.2	235.0	260.8	284.6	307.6	328.6	346.7	363.0	378.2
50°	165.2	176.7	200.6	226.4	252.2	276.0	298.0	318.1	336.2	351.5	365.8
52.5°	156.6	169.1	192.9	218.7	242.6	266.5	288.5	307.6	324.7	340.0	352.4
55°	148.0	160.5	185.3	210.1	234.0	258.8	279.9	299.0	316.2	329.5	341.0
57.5°	138.5	152.8	176.7	201.5	225.4	248.3	270.3	289.4	304.7	318.1	328.6
60°	129.9	144.2	168.1	192.0	216.8	239.7	260.8	278.9	294.2	307.6	317.1
62.5°	119.4	135.6	158.6	183.4	207.3	229.2	251.2	269.3	284.6	296.1	303.7
65°	109.8	126.1	149.0	172.9	196.8	219.7	240.7	258.8	272.2	283.7	290.4
67.5°	100.3	116.5	139.5	163.3	186.3	208.2	229.2	246.4	259.8	269.3	275.1
70°	90.7	107.0	128.9	151.9	174.8	196.8	216.8	233.1	245.5	255.0	259.8
72.5°	81.2	97.4	118.4	140.4	162.4	183.4	203.4	218.7	230.2	238.8	243.6
75°	71.6	86.9	107.0	128.0	148.0	169.1	188.2	202.5	214.0	220.6	224.5
77.5°	62.1	76.4	94.6	113.7	133.7	152.8	170.0	184.3	193.9	200.6	202.5
80°	51.6	64.9	80.2	98.4	115.6	133.7	149.0	161.4	170.0	172.9	172.9
82.5°	42.0	51.6	64.0	79.3	93.6	108.9	122.3	132.8	137.5	140.4	139.5
85°	29.6	35.3	43.9	55.4	65.9	79.3	88.8	95.5	99.3	100.3	99.3
87.5°	15.3	16.2	21.0	26.7	32.5	41.1	44.9	50.6	52.5	52.5	52.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	257.9	257.9	259.8	259.8	260.8	259.8	260.8	260.8
5°	283.7	287.5	291.3	293.2	296.1	297.0	298.0	298.0
7.5°	315.2	320.9	325.7	328.6	333.3	335.3	336.2	336.2
10°	345.8	353.4	360.1	364.9	369.6	372.5	374.4	375.4
12.5°	374.4	384.0	391.6	398.3	403.1	406.9	408.8	409.8
15°	399.2	410.7	420.3	426.9	433.6	437.5	440.3	441.3
17.5°	421.2	432.7	443.2	451.8	458.5	463.2	466.1	468.0
20°	437.5	450.8	462.3	470.9	479.5	484.3	487.1	489.0
22.5°	449.9	464.2	476.6	486.2	494.8	500.5	503.4	505.3
25°	458.5	473.7	487.1	496.7	506.2	512.0	515.8	516.7
27.5°	463.2	479.5	492.9	503.4	512.9	518.6	522.5	523.4
30°	464.2	479.5	493.8	504.3	513.9	519.6	523.4	524.4
32.5°	461.3	476.6	490.0	501.4	510.0	515.8	519.6	520.5
35°	454.6	469.9	482.3	493.8	502.4	508.1	512.0	512.0
37.5°	444.1	459.4	471.8	482.3	490.9	495.7	499.5	500.5
40°	432.7	446.0	458.5	468.0	475.7	480.4	484.3	485.2
42.5°	419.3	431.7	442.2	450.8	458.5	464.2	466.1	467.1
45°	405.0	416.4	426.0	433.6	440.3	443.2	447.0	448.0
47.5°	390.7	401.2	408.8	415.5	421.2	425.0	426.9	426.9
50°	376.3	384.9	392.6	398.3	402.1	404.0	405.9	407.8
52.5°	363.0	369.6	376.3	380.1	383.0	385.9	386.8	387.8
55°	349.6	356.3	361.0	363.9	365.8	368.7	368.7	369.6
57.5°	336.2	341.0	344.8	346.7	348.6	349.6	350.5	351.5
60°	322.8	326.7	328.6	330.5	331.4	333.3	333.3	334.3
62.5°	309.5	311.4	313.3	314.2	315.2	317.1	318.1	318.1
65°	294.2	296.1	297.0	298.0	299.0	300.9	301.8	301.8
67.5°	278.9	279.9	279.9	281.8	282.7	284.6	284.6	285.6
70°	262.7	262.7	263.6	264.6	265.5	266.5	268.4	269.3
72.5°	245.5	244.5	245.5	246.4	248.3	249.3	250.2	251.2
75°	224.5	224.5	225.4	224.5	224.5	225.4	225.4	226.4
77.5°	201.5	198.7	195.8	195.8	195.8	194.8	194.8	195.8
80°	171.0	167.1	165.2	165.2	164.3	164.3	165.2	165.2
82.5°	136.6	135.6	131.8	131.8	132.8	130.9	131.8	132.8
85°	97.4	96.5	94.6	94.6	94.6	92.6	93.6	94.6
87.5°	51.6	50.6	48.7	49.7	49.7	47.8	49.7	48.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)