

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: P188296

Luminaire Tested: **22SR-LD2-25-C-UNV-L840-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188296
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-L840-CD1-MR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1501.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

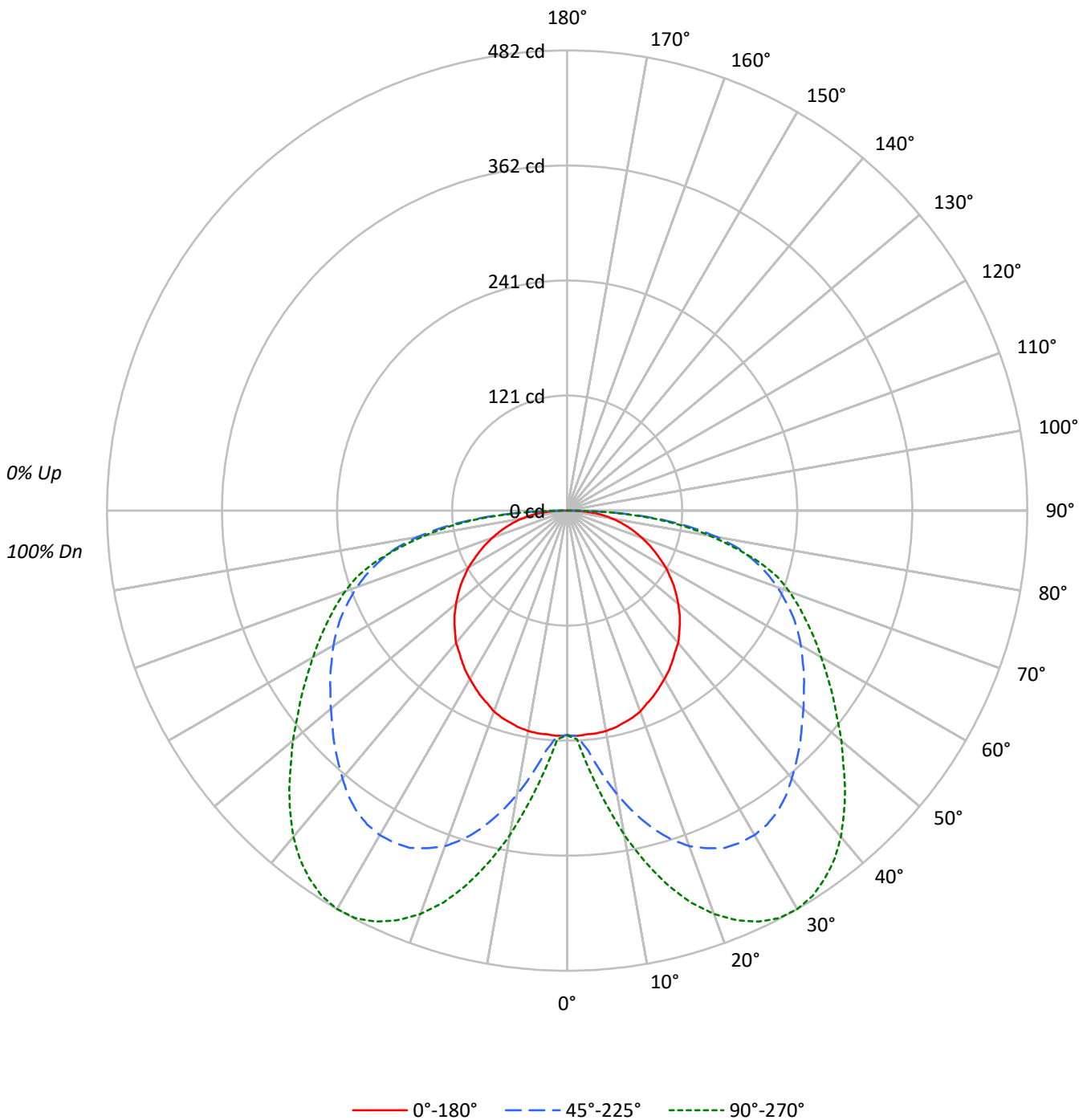
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	689	689	689
5°	692	741	806
10°	697	899	1026
15°	698	1044	1230
20°	698	1166	1402
25°	693	1260	1536
30°	689	1328	1631
35°	688	1375	1683
40°	692	1400	1706
45°	691	1430	1706
50°	692	1473	1709
55°	695	1547	1736
60°	700	1657	1801
65°	700	1807	1923
70°	714	2008	2121
75°	745	2296	2356
80°	800	2681	2563
85°	914	3100	2921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	1.7
10°-20°	94.2	6.3
20°-30°	170.6	11.4
30°-40°	226.7	15.1
40°-50°	249.2	16.6
50°-60°	247.1	16.5
60°-70°	227.5	15.2
70°-80°	181.6	12.1
80°-90°	78.4	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°	290.4	19.3
0°-40°	517.1	34.4
0°-60°	1013.4	67.5
0°-90°	1501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	235	235	235	235	235	
5°	235	237	252	269	274	22
15°	230	276	344	389	406	65
25°	214	295	390	452	475	99
35°	192	286	384	449	471	120
45°	167	259	345	395	412	129
55°	136	226	303	333	340	122
65°	101	191	261	273	277	100
75°	66	146	203	207	208	69
85°	27	67	92	87	87	28
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°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	236.2	236.2	236.2	236.2	235.3	235.3	235.3	235.3	235.3	236.2	237.0
5°	235.3	235.3	235.3	236.2	236.2	237.9	240.6	244.1	247.6	252.0	257.2
7.5°	235.3	235.3	235.3	236.2	240.6	247.6	255.5	263.4	270.4	277.4	285.3
10°	234.4	234.4	234.4	239.7	249.3	260.7	272.2	282.7	292.4	302.0	311.7
12.5°	232.7	232.7	235.3	244.9	259.0	273.9	286.2	300.3	312.5	324.0	335.4
15°	230.0	230.0	235.3	250.2	267.8	283.6	300.3	316.1	331.0	344.1	357.3
17.5°	227.4	227.4	236.2	254.6	273.9	293.2	311.7	329.2	345.9	360.8	374.9
20°	223.9	223.9	236.2	258.1	279.2	300.3	320.4	338.9	357.3	374.0	388.9
22.5°	218.6	220.4	236.2	259.9	282.7	304.6	325.7	346.8	366.1	382.8	399.5
25°	214.2	216.8	235.3	259.9	283.6	307.3	330.1	351.2	371.4	389.8	406.5
27.5°	208.9	212.5	233.5	259.0	283.6	307.3	331.0	352.9	374.0	392.4	410.0
30°	203.7	208.1	230.9	256.4	281.8	306.4	329.2	352.1	373.1	392.4	410.0
32.5°	198.4	203.7	226.5	252.8	278.3	302.9	326.6	349.4	370.5	389.8	407.4
35°	192.3	198.4	222.1	248.5	273.9	298.5	321.3	344.1	365.2	384.5	401.2
37.5°	186.1	193.1	216.8	243.2	267.8	292.4	315.2	337.1	358.2	376.6	393.3
40°	180.9	187.0	210.7	237.0	261.6	285.3	308.2	329.2	349.4	366.1	382.8
42.5°	173.8	181.7	204.6	230.9	254.6	277.4	300.3	320.4	339.8	355.6	371.4
45°	166.8	175.6	198.4	223.0	247.6	269.5	291.5	311.7	329.2	345.0	359.1
47.5°	159.8	168.6	191.4	216.0	239.7	261.6	282.7	302.0	318.7	333.6	347.7
50°	151.9	162.4	184.4	208.1	231.8	253.7	273.9	292.4	309.0	323.1	336.2
52.5°	144.0	155.4	177.3	201.0	223.0	244.9	265.1	282.7	298.5	312.5	324.0
55°	136.1	147.5	170.3	193.1	215.1	237.9	257.2	274.8	290.6	302.9	313.4
57.5°	127.3	140.5	162.4	185.2	207.2	228.3	248.5	266.0	280.1	292.4	302.0
60°	119.4	132.6	154.5	176.5	199.3	220.4	239.7	256.4	270.4	282.7	291.5
62.5°	109.7	124.7	145.7	168.6	190.5	210.7	230.9	247.6	261.6	272.2	279.2
65°	101.0	115.9	137.0	158.9	180.9	201.9	221.2	237.9	250.2	260.7	266.9
67.5°	92.2	107.1	128.2	150.1	171.2	191.4	210.7	226.5	238.8	247.6	252.8
70°	83.4	98.3	118.5	139.6	160.7	180.9	199.3	214.2	225.6	234.4	238.8
72.5°	74.6	89.5	108.9	129.1	149.2	168.6	187.0	201.0	211.6	219.5	223.9
75°	65.8	79.9	98.3	117.6	136.1	155.4	173.0	186.1	196.7	202.8	206.3
77.5°	57.1	70.2	86.9	104.5	122.9	140.5	156.3	169.4	178.2	184.4	186.1
80°	47.4	59.7	73.7	90.4	106.2	122.9	137.0	148.4	156.3	158.9	158.9
82.5°	38.6	47.4	58.8	72.9	86.0	100.1	112.4	122.0	126.4	129.1	128.2
85°	27.2	32.5	40.4	50.9	60.6	72.9	81.6	87.8	91.3	92.2	91.3
87.5°	14.0	14.9	19.3	24.6	29.8	37.8	41.3	46.5	48.3	48.3	48.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	237.0	237.0	238.8	238.8	239.7	238.8	239.7	239.7
5°	260.7	264.3	267.8	269.5	272.2	273.0	273.9	273.9
7.5°	289.7	295.0	299.4	302.0	306.4	308.2	309.0	309.0
10°	317.8	324.8	331.0	335.4	339.8	342.4	344.1	345.0
12.5°	344.1	352.9	360.0	366.1	370.5	374.0	375.8	376.6
15°	367.0	377.5	386.3	392.4	398.6	402.1	404.7	405.6
17.5°	387.2	397.7	407.4	415.3	421.4	425.8	428.4	430.2
20°	402.1	414.4	424.9	432.8	440.7	445.1	447.7	449.5
22.5°	413.5	426.7	438.1	446.9	454.8	460.0	462.7	464.4
25°	421.4	435.5	447.7	456.5	465.3	470.6	474.1	475.0
27.5°	425.8	440.7	453.0	462.7	471.4	476.7	480.2	481.1
30°	426.7	440.7	453.9	463.5	472.3	477.6	481.1	482.0
32.5°	424.0	438.1	450.4	460.9	468.8	474.1	477.6	478.5
35°	417.9	431.9	443.4	453.9	461.8	467.1	470.6	470.6
37.5°	408.2	422.3	433.7	443.4	451.3	455.6	459.2	460.0
40°	397.7	410.0	421.4	430.2	437.2	441.6	445.1	446.0
42.5°	385.4	396.8	406.5	414.4	421.4	426.7	428.4	429.3
45°	372.2	382.8	391.6	398.6	404.7	407.4	410.9	411.7
47.5°	359.1	368.7	375.8	381.9	387.2	390.7	392.4	392.4
50°	345.9	353.8	360.8	366.1	369.6	371.4	373.1	374.9
52.5°	333.6	339.8	345.9	349.4	352.1	354.7	355.6	356.4
55°	321.3	327.5	331.9	334.5	336.2	338.9	338.9	339.8
57.5°	309.0	313.4	316.9	318.7	320.4	321.3	322.2	323.1
60°	296.7	300.3	302.0	303.8	304.6	306.4	306.4	307.3
62.5°	284.4	286.2	288.0	288.8	289.7	291.5	292.4	292.4
65°	270.4	272.2	273.0	273.9	274.8	276.5	277.4	277.4
67.5°	256.4	257.2	257.2	259.0	259.9	261.6	261.6	262.5
70°	241.4	241.4	242.3	243.2	244.1	244.9	246.7	247.6
72.5°	225.6	224.8	225.6	226.5	228.3	229.1	230.0	230.9
75°	206.3	206.3	207.2	206.3	206.3	207.2	207.2	208.1
77.5°	185.2	182.6	180.0	180.0	180.0	179.1	179.1	180.0
80°	157.1	153.6	151.9	151.9	151.0	151.0	151.9	151.9
82.5°	125.5	124.7	121.2	121.2	122.0	120.3	121.2	122.0
85°	89.5	88.7	86.9	86.9	86.9	85.2	86.0	86.9
87.5°	47.4	46.5	44.8	45.7	45.7	43.9	45.7	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)