

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: P188299

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188299
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-L830-CD1-MR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1427.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

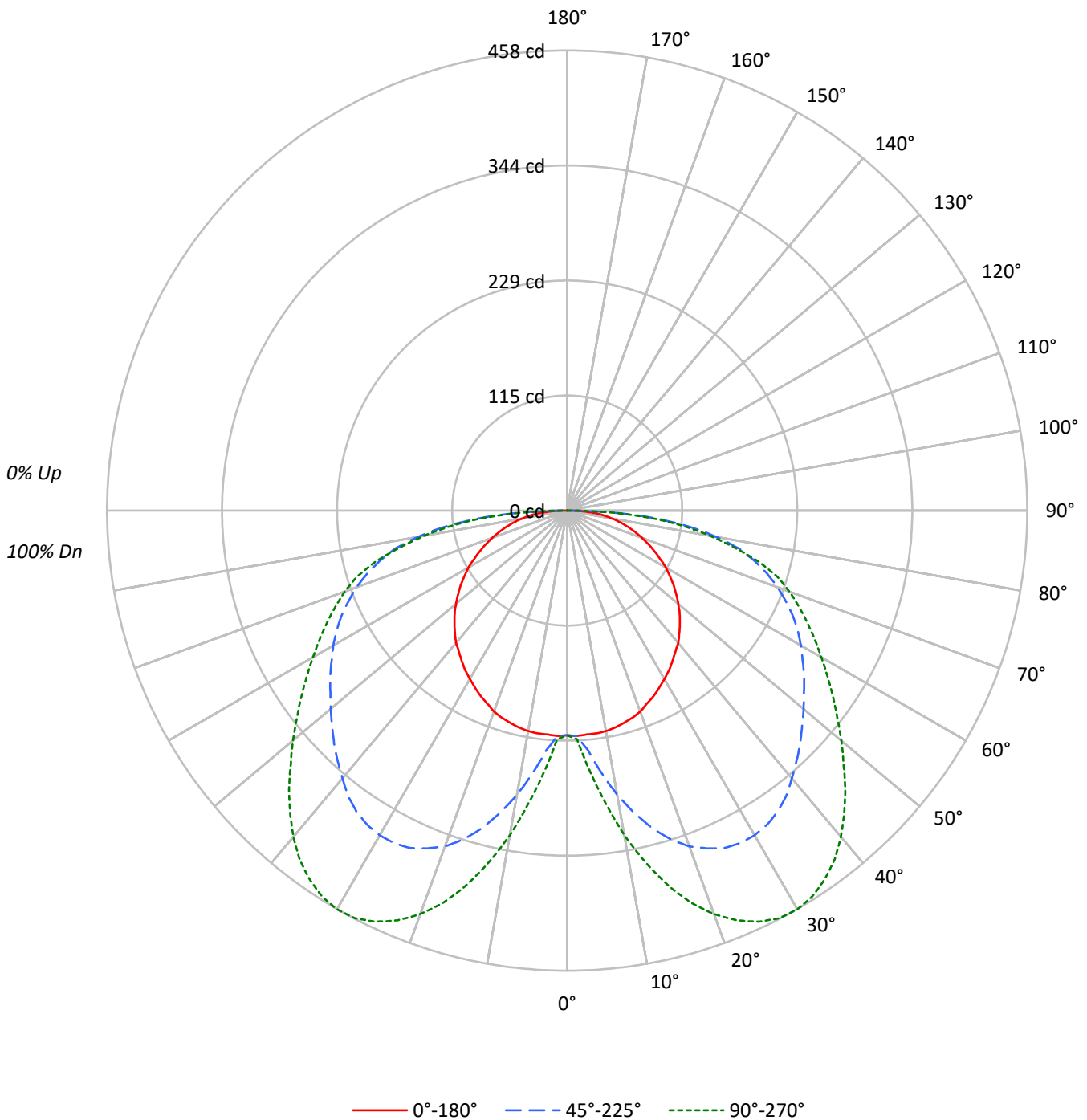
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	655	655	655
5°	658	704	766
10°	663	854	976
15°	663	993	1170
20°	664	1109	1332
25°	659	1198	1460
30°	655	1262	1550
35°	654	1308	1600
40°	658	1331	1622
45°	657	1359	1622
50°	658	1400	1625
55°	661	1471	1650
60°	665	1575	1712
65°	666	1719	1828
70°	679	1910	2017
75°	709	2183	2239
80°	761	2550	2437
85°	871	2945	2777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	1.7
10°-20°	89.6	6.3
20°-30°	162.2	11.4
30°-40°	215.5	15.1
40°-50°	236.9	16.6
50°-60°	234.9	16.5
60°-70°	216.3	15.2
70°-80°	172.7	12.1
80°-90°	74.6	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°	276.0	19.3
0°-40°	491.6	34.4
0°-60°	963.5	67.5
0°-90°	1427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	224	224	224	224	224	
5°	224	225	240	255	260	21
15°	219	262	327	370	386	62
25°	204	281	371	430	452	94
35°	183	272	366	426	447	115
45°	159	246	328	376	392	122
55°	129	215	288	317	323	116
65°	96	182	248	260	264	95
75°	63	139	193	197	198	66
85°	26	63	88	83	83	27
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°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7
2.5°	224.5	224.5	224.5	224.5	223.7	223.7	223.7	223.7	223.7	224.5	225.4
5°	223.7	223.7	223.7	224.5	224.5	226.2	228.7	232.0	235.4	239.5	244.6
7.5°	223.7	223.7	223.7	224.5	228.7	235.4	242.9	250.4	257.1	263.7	271.3
10°	222.9	222.9	222.9	227.9	237.0	247.9	258.7	268.8	277.9	287.1	296.3
12.5°	221.2	221.2	223.7	232.9	246.2	260.4	272.1	285.4	297.1	308.0	318.8
15°	218.7	218.7	223.7	237.9	254.6	269.6	285.4	300.5	314.7	327.2	339.7
17.5°	216.2	216.2	224.5	242.0	260.4	278.8	296.3	313.0	328.9	343.0	356.4
20°	212.8	212.8	224.5	245.4	265.4	285.4	304.6	322.2	339.7	355.6	369.7
22.5°	207.8	209.5	224.5	247.1	268.8	289.6	309.7	329.7	348.0	363.9	379.8
25°	203.7	206.2	223.7	247.1	269.6	292.1	313.8	333.9	353.1	370.6	386.4
27.5°	198.6	202.0	222.0	246.2	269.6	292.1	314.7	335.5	355.6	373.1	389.8
30°	193.6	197.8	219.5	243.7	267.9	291.3	313.0	334.7	354.7	373.1	389.8
32.5°	188.6	193.6	215.3	240.4	264.6	288.0	310.5	332.2	352.2	370.6	387.3
35°	182.8	188.6	211.2	236.2	260.4	283.8	305.5	327.2	347.2	365.6	381.4
37.5°	176.9	183.6	206.2	231.2	254.6	277.9	299.6	320.5	340.5	358.1	373.9
40°	171.9	177.8	200.3	225.4	248.7	271.3	293.0	313.0	332.2	348.0	363.9
42.5°	165.3	172.8	194.5	219.5	242.0	263.7	285.4	304.6	323.0	338.0	353.1
45°	158.6	166.9	188.6	212.0	235.4	256.2	277.1	296.3	313.0	328.0	341.4
47.5°	151.9	160.3	182.0	205.3	227.9	248.7	268.8	287.1	303.0	317.2	330.5
50°	144.4	154.4	175.3	197.8	220.3	241.2	260.4	277.9	293.8	307.2	319.7
52.5°	136.9	147.7	168.6	191.1	212.0	232.9	252.1	268.8	283.8	297.1	308.0
55°	129.4	140.2	161.9	183.6	204.5	226.2	244.6	261.2	276.3	288.0	298.0
57.5°	121.0	133.5	154.4	176.1	197.0	217.0	236.2	252.9	266.3	277.9	287.1
60°	113.5	126.0	146.9	167.8	189.5	209.5	227.9	243.7	257.1	268.8	277.1
62.5°	104.3	118.5	138.6	160.3	181.1	200.3	219.5	235.4	248.7	258.7	265.4
65°	96.0	110.2	130.2	151.1	171.9	192.0	210.3	226.2	237.9	247.9	253.7
67.5°	87.6	101.8	121.9	142.7	162.8	182.0	200.3	215.3	227.0	235.4	240.4
70°	79.3	93.5	112.7	132.7	152.7	171.9	189.5	203.7	214.5	222.9	227.0
72.5°	70.9	85.1	103.5	122.7	141.9	160.3	177.8	191.1	201.2	208.7	212.8
75°	62.6	76.0	93.5	111.8	129.4	147.7	164.4	176.9	187.0	192.8	196.1
77.5°	54.3	66.8	82.6	99.3	116.9	133.5	148.6	161.1	169.4	175.3	176.9
80°	45.1	56.8	70.1	86.0	101.0	116.9	130.2	141.1	148.6	151.1	151.1
82.5°	36.7	45.1	55.9	69.3	81.8	95.1	106.8	116.0	120.2	122.7	121.9
85°	25.9	30.9	38.4	48.4	57.6	69.3	77.6	83.5	86.8	87.6	86.8
87.5°	13.4	14.2	18.4	23.4	28.4	35.9	39.2	44.2	45.9	45.9	45.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7
2.5°	225.4	225.4	227.0	227.0	227.9	227.0	227.9	227.9
5°	247.9	251.2	254.6	256.2	258.7	259.6	260.4	260.4
7.5°	275.4	280.4	284.6	287.1	291.3	293.0	293.8	293.8
10°	302.1	308.8	314.7	318.8	323.0	325.5	327.2	328.0
12.5°	327.2	335.5	342.2	348.0	352.2	355.6	357.2	358.1
15°	348.9	358.9	367.2	373.1	378.9	382.3	384.8	385.6
17.5°	368.1	378.1	387.3	394.8	400.6	404.8	407.3	409.0
20°	382.3	394.0	404.0	411.5	419.0	423.2	425.7	427.3
22.5°	393.1	405.6	416.5	424.8	432.3	437.4	439.9	441.5
25°	400.6	414.0	425.7	434.0	442.4	447.4	450.7	451.5
27.5°	404.8	419.0	430.7	439.9	448.2	453.2	456.6	457.4
30°	405.6	419.0	431.5	440.7	449.0	454.0	457.4	458.2
32.5°	403.1	416.5	428.2	438.2	445.7	450.7	454.0	454.9
35°	397.3	410.6	421.5	431.5	439.0	444.0	447.4	447.4
37.5°	388.1	401.5	412.3	421.5	429.0	433.2	436.5	437.4
40°	378.1	389.8	400.6	409.0	415.7	419.8	423.2	424.0
42.5°	366.4	377.3	386.4	394.0	400.6	405.6	407.3	408.1
45°	353.9	363.9	372.3	378.9	384.8	387.3	390.6	391.5
47.5°	341.4	350.6	357.2	363.1	368.1	371.4	373.1	373.1
50°	328.9	336.4	343.0	348.0	351.4	353.1	354.7	356.4
52.5°	317.2	323.0	328.9	332.2	334.7	337.2	338.0	338.9
55°	305.5	311.3	315.5	318.0	319.7	322.2	322.2	323.0
57.5°	293.8	298.0	301.3	303.0	304.6	305.5	306.3	307.2
60°	282.1	285.4	287.1	288.8	289.6	291.3	291.3	292.1
62.5°	270.4	272.1	273.8	274.6	275.4	277.1	277.9	277.9
65°	257.1	258.7	259.6	260.4	261.2	262.9	263.7	263.7
67.5°	243.7	244.6	244.6	246.2	247.1	248.7	248.7	249.6
70°	229.5	229.5	230.4	231.2	232.0	232.9	234.5	235.4
72.5°	214.5	213.7	214.5	215.3	217.0	217.8	218.7	219.5
75°	196.1	196.1	197.0	196.1	196.1	197.0	197.0	197.8
77.5°	176.1	173.6	171.1	171.1	171.1	170.3	170.3	171.1
80°	149.4	146.1	144.4	144.4	143.6	143.6	144.4	144.4
82.5°	119.4	118.5	115.2	115.2	116.0	114.3	115.2	116.0
85°	85.1	84.3	82.6	82.6	82.6	81.0	81.8	82.6
87.5°	45.1	44.2	42.6	43.4	43.4	41.7	43.4	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)