

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: P188302

Luminaire Tested: **22SR-LD2-20-C-UNV-L850-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188302
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-LD2-20-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: 1298.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

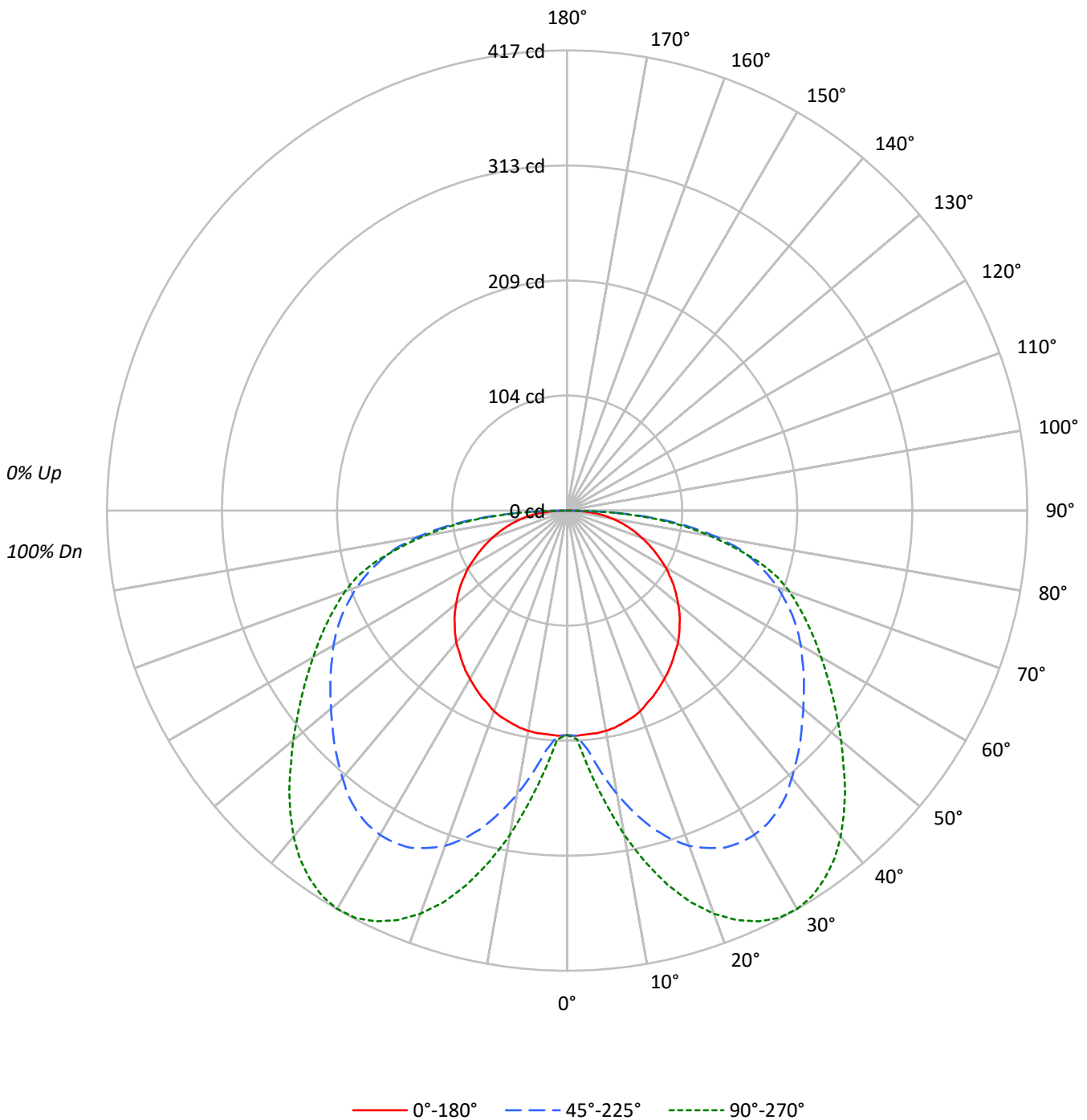
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	596	596	596
5°	599	641	697
10°	603	777	888
15°	603	903	1064
20°	604	1008	1212
25°	599	1090	1328
30°	596	1148	1410
35°	595	1189	1455
40°	598	1211	1475
45°	598	1236	1476
50°	599	1274	1478
55°	601	1338	1501
60°	605	1433	1557
65°	605	1563	1663
70°	618	1737	1834
75°	644	1986	2037
80°	692	2318	2215
85°	790	2679	2528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	1.7
10°-20°	81.5	6.3
20°-30°	147.5	11.4
30°-40°	196.1	15.1
40°-50°	215.5	16.6
50°-60°	213.7	16.5
60°-70°	196.7	15.2
70°-80°	157.1	12.1
80°-90°	67.8	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°	251.1	19.3
0°-40°	447.1	34.4
0°-60°	876.4	67.5
0°-90°	1298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	204	204	204	204	204	
5°	204	205	218	232	237	19
15°	199	238	298	337	351	56
25°	185	255	337	391	411	85
35°	166	248	332	388	407	104
45°	144	224	298	342	356	111
55°	118	196	262	288	294	105
65°	87	166	226	236	240	87
75°	57	126	175	179	180	60
85°	24	58	80	75	75	24
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°	203.5	203.5	203.5	203.5	203.5	203.5	203.5	203.5	203.5	203.5	203.5
2.5°	204.2	204.2	204.2	204.2	203.5	203.5	203.5	203.5	203.5	204.2	205.0
5°	203.5	203.5	203.5	204.2	204.2	205.7	208.0	211.1	214.1	217.9	222.4
7.5°	203.5	203.5	203.5	204.2	208.0	214.1	220.9	227.8	233.8	239.9	246.7
10°	202.7	202.7	202.7	207.3	215.6	225.5	235.4	244.5	252.8	261.2	269.5
12.5°	201.2	201.2	203.5	211.8	224.0	236.9	247.5	259.6	270.3	280.1	290.0
15°	198.9	198.9	203.5	216.4	231.6	245.2	259.6	273.3	286.2	297.6	309.0
17.5°	196.6	196.6	204.2	220.2	236.9	253.6	269.5	284.7	299.1	312.0	324.2
20°	193.6	193.6	204.2	223.2	241.4	259.6	277.1	293.0	309.0	323.4	336.3
22.5°	189.0	190.6	204.2	224.7	244.5	263.4	281.7	299.9	316.6	331.0	345.4
25°	185.2	187.5	203.5	224.7	245.2	265.7	285.5	303.7	321.1	337.1	351.5
27.5°	180.7	183.7	201.9	224.0	245.2	265.7	286.2	305.2	323.4	339.4	354.5
30°	176.1	179.9	199.7	221.7	243.7	265.0	284.7	304.4	322.7	339.4	354.5
32.5°	171.6	176.1	195.9	218.6	240.7	261.9	282.4	302.2	320.4	337.1	352.3
35°	166.3	171.6	192.1	214.9	236.9	258.1	277.9	297.6	315.8	332.5	347.0
37.5°	160.9	167.0	187.5	210.3	231.6	252.8	272.6	291.5	309.8	325.7	340.1
40°	156.4	161.7	182.2	205.0	226.2	246.7	266.5	284.7	302.2	316.6	331.0
42.5°	150.3	157.2	176.9	199.7	220.2	239.9	259.6	277.1	293.8	307.5	321.1
45°	144.2	151.8	171.6	192.8	214.1	233.1	252.1	269.5	284.7	298.4	310.5
47.5°	138.2	145.8	165.5	186.8	207.3	226.2	244.5	261.2	275.6	288.5	300.6
50°	131.3	140.5	159.4	179.9	200.4	219.4	236.9	252.8	267.2	279.4	290.8
52.5°	124.5	134.4	153.4	173.9	192.8	211.8	229.3	244.5	258.1	270.3	280.1
55°	117.7	127.5	147.3	167.0	186.0	205.7	222.4	237.6	251.3	261.9	271.0
57.5°	110.1	121.5	140.5	160.2	179.2	197.4	214.9	230.0	242.2	252.8	261.2
60°	103.3	114.6	133.6	152.6	172.3	190.6	207.3	221.7	233.8	244.5	252.1
62.5°	94.9	107.8	126.0	145.8	164.7	182.2	199.7	214.1	226.2	235.4	241.4
65°	87.3	100.2	118.4	137.4	156.4	174.6	191.3	205.7	216.4	225.5	230.8
67.5°	79.7	92.6	110.8	129.8	148.0	165.5	182.2	195.9	206.5	214.1	218.6
70°	72.1	85.0	102.5	120.7	138.9	156.4	172.3	185.2	195.1	202.7	206.5
72.5°	64.5	77.4	94.1	111.6	129.1	145.8	161.7	173.9	183.0	189.8	193.6
75°	56.9	69.1	85.0	101.7	117.7	134.4	149.6	160.9	170.1	175.4	178.4
77.5°	49.3	60.7	75.2	90.3	106.3	121.5	135.1	146.5	154.1	159.4	160.9
80°	41.0	51.6	63.8	78.2	91.9	106.3	118.4	128.3	135.1	137.4	137.4
82.5°	33.4	41.0	50.9	63.0	74.4	86.5	97.2	105.5	109.3	111.6	110.8
85°	23.5	28.1	34.9	44.0	52.4	63.0	70.6	75.9	79.0	79.7	79.0
87.5°	12.1	12.9	16.7	21.3	25.8	32.6	35.7	40.2	41.8	41.8	41.8
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°	203.5	203.5	203.5	203.5	203.5	203.5	203.5	203.5
2.5°	205.0	205.0	206.5	206.5	207.3	206.5	207.3	207.3
5°	225.5	228.5	231.6	233.1	235.4	236.1	236.9	236.9
7.5°	250.5	255.1	258.9	261.2	265.0	266.5	267.2	267.2
10°	274.8	280.9	286.2	290.0	293.8	296.1	297.6	298.4
12.5°	297.6	305.2	311.3	316.6	320.4	323.4	324.9	325.7
15°	317.3	326.5	334.0	339.4	344.7	347.7	350.0	350.7
17.5°	334.8	343.9	352.3	359.1	364.4	368.2	370.5	372.0
20°	347.7	358.3	367.5	374.3	381.1	384.9	387.2	388.7
22.5°	357.6	369.0	378.8	386.4	393.3	397.8	400.1	401.6
25°	364.4	376.6	387.2	394.8	402.4	406.9	410.0	410.7
27.5°	368.2	381.1	391.7	400.1	407.7	412.2	415.3	416.0
30°	369.0	381.1	392.5	400.9	408.4	413.0	416.0	416.8
32.5°	366.7	378.8	389.5	398.6	405.4	410.0	413.0	413.8
35°	361.4	373.5	383.4	392.5	399.3	403.9	406.9	406.9
37.5°	353.0	365.2	375.0	383.4	390.2	394.0	397.1	397.8
40°	343.9	354.5	364.4	372.0	378.1	381.9	384.9	385.7
42.5°	333.3	343.2	351.5	358.3	364.4	369.0	370.5	371.2
45°	321.9	331.0	338.6	344.7	350.0	352.3	355.3	356.1
47.5°	310.5	318.9	324.9	330.3	334.8	337.8	339.4	339.4
50°	299.1	306.0	312.0	316.6	319.6	321.1	322.7	324.2
52.5°	288.5	293.8	299.1	302.2	304.4	306.7	307.5	308.2
55°	277.9	283.2	287.0	289.3	290.8	293.0	293.0	293.8
57.5°	267.2	271.0	274.1	275.6	277.1	277.9	278.6	279.4
60°	256.6	259.6	261.2	262.7	263.4	265.0	265.0	265.7
62.5°	246.0	247.5	249.0	249.8	250.5	252.1	252.8	252.8
65°	233.8	235.4	236.1	236.9	237.6	239.1	239.9	239.9
67.5°	221.7	222.4	222.4	224.0	224.7	226.2	226.2	227.0
70°	208.8	208.8	209.5	210.3	211.1	211.8	213.3	214.1
72.5°	195.1	194.4	195.1	195.9	197.4	198.2	198.9	199.7
75°	178.4	178.4	179.2	178.4	178.4	179.2	179.2	179.9
77.5°	160.2	157.9	155.6	155.6	155.6	154.9	154.9	155.6
80°	135.9	132.9	131.3	131.3	130.6	130.6	131.3	131.3
82.5°	108.6	107.8	104.8	104.8	105.5	104.0	104.8	105.5
85°	77.4	76.7	75.2	75.2	75.2	73.6	74.4	75.2
87.5°	41.0	40.2	38.7	39.5	39.5	38.0	39.5	38.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)