

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: P188323

Luminaire Tested: **22SR-LD2-25-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)
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-L835-CD1-PG-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1486.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

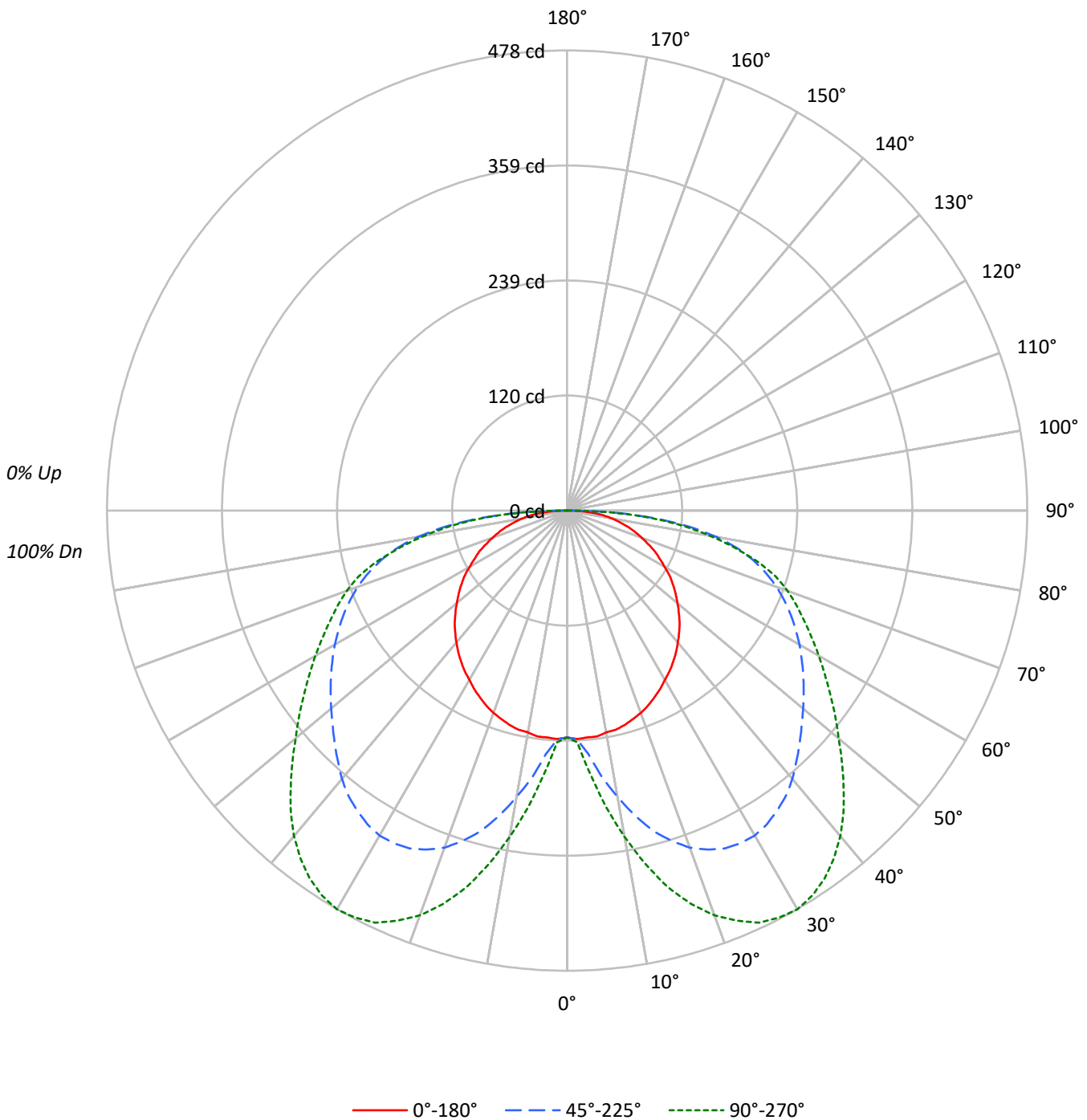
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	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	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	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°	691	691	691
5°	696	746	807
10°	696	899	1024
15°	700	1044	1229
20°	698	1161	1395
25°	693	1252	1527
30°	687	1318	1618
35°	686	1360	1668
40°	684	1392	1688
45°	685	1415	1683
50°	682	1459	1678
55°	686	1529	1705
60°	686	1633	1770
65°	698	1778	1885
70°	708	1982	2086
75°	740	2270	2319
80°	798	2656	2541
85°	898	3096	2921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	1.7
10°-20°	94.0	6.3
20°-30°	169.7	11.4
30°-40°	224.8	15.1
40°-50°	246.7	16.6
50°-60°	243.9	16.4
60°-70°	224.0	15.1
70°-80°	179.2	12.1
80°-90°	78.1	5.3
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°	289.3	19.5
0°-40°	514.1	34.6
0°-60°	1004.7	67.6
0°-90°	1486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	236	236	236	236	236	
5°	237	238	254	269	274	23
15°	231	276	344	388	405	65
25°	214	295	387	450	472	99
35°	192	284	380	444	466	120
45°	165	256	342	391	406	127
55°	134	224	299	328	334	120
65°	101	189	256	269	272	99
75°	65	144	200	204	205	69
85°	27	65	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°	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7
2.5°	237.5	237.5	236.6	237.5	236.6	237.5	236.6	236.6	237.5	237.5	238.3
5°	236.6	236.6	236.6	236.6	237.5	239.2	241.8	245.2	249.5	253.8	258.1
7.5°	236.6	236.6	236.6	237.5	241.8	248.6	256.4	264.1	272.7	279.6	285.6
10°	234.0	234.9	234.9	240.0	249.5	260.7	272.7	282.2	292.5	302.0	310.6
12.5°	233.2	234.0	235.7	245.2	259.0	274.4	287.4	300.3	313.2	324.3	334.7
15°	230.6	230.6	236.6	250.4	267.6	283.9	300.3	315.7	330.4	344.1	356.2
17.5°	227.1	227.1	236.6	254.7	273.6	292.5	310.6	327.8	345.0	359.6	373.4
20°	223.7	224.5	236.6	258.1	278.7	300.3	319.2	338.1	356.2	372.5	388.0
22.5°	219.4	220.2	236.6	259.8	282.2	304.6	325.2	345.0	363.9	381.1	397.5
25°	214.2	216.8	234.9	259.0	283.1	306.3	327.8	349.3	369.9	387.2	404.4
27.5°	209.1	212.5	232.3	257.2	282.2	306.3	328.6	351.0	370.8	389.7	406.9
30°	203.0	207.3	229.7	255.5	280.5	304.6	327.8	350.2	370.8	389.7	406.9
32.5°	197.9	203.0	226.3	252.1	277.0	301.1	324.3	346.7	367.4	386.3	403.5
35°	191.9	197.0	221.1	246.9	271.9	296.0	319.2	340.7	362.2	380.3	397.5
37.5°	185.8	191.9	215.9	241.8	266.7	290.8	313.2	334.7	354.5	373.4	389.7
40°	178.9	185.8	209.9	235.7	259.8	283.1	305.4	326.1	345.9	363.9	379.4
42.5°	172.1	179.8	203.0	228.8	252.9	276.2	297.7	317.5	336.4	352.7	367.4
45°	165.2	173.8	197.0	221.1	245.2	267.6	288.2	308.0	325.2	341.6	355.3
47.5°	157.4	166.9	190.1	214.2	237.5	259.0	279.6	298.5	315.7	330.4	343.3
50°	149.7	160.0	183.3	206.5	228.8	251.2	271.0	289.1	305.4	320.0	332.1
52.5°	142.0	153.1	175.5	198.7	221.1	242.6	262.4	279.6	296.0	309.7	320.0
55°	134.2	145.4	168.6	191.0	213.4	234.0	253.8	271.0	286.5	299.4	308.9
57.5°	126.5	138.5	160.9	182.4	204.8	226.3	245.2	262.4	277.0	289.1	298.5
60°	117.0	130.8	152.3	174.6	196.2	217.7	236.6	252.9	267.6	278.7	287.4
62.5°	108.4	123.0	144.5	166.0	187.6	208.2	227.1	243.5	257.2	267.6	275.3
65°	100.7	114.4	135.9	156.6	178.1	199.6	217.7	234.0	246.9	256.4	263.3
67.5°	91.2	105.8	126.5	147.1	168.6	189.3	207.3	222.8	235.7	244.3	250.4
70°	82.6	97.2	117.0	137.7	158.3	178.1	196.2	211.6	222.8	231.4	235.7
72.5°	74.0	88.6	107.5	127.3	147.1	166.9	184.1	197.9	209.1	216.8	220.2
75°	65.4	79.2	97.2	116.1	134.2	153.1	170.3	184.1	193.6	200.5	203.0
77.5°	55.9	69.7	86.0	103.2	120.4	138.5	154.0	166.9	176.4	181.5	184.1
80°	47.3	58.5	73.1	89.5	105.0	121.3	135.1	146.3	154.0	157.4	156.6
82.5°	37.9	46.5	58.5	72.3	85.2	98.9	111.0	120.4	125.6	127.3	127.3
85°	26.7	31.8	40.4	49.9	60.2	70.5	80.0	86.9	91.2	92.1	92.1
87.5°	13.8	15.5	18.9	24.1	29.3	35.3	42.2	46.5	48.2	49.0	49.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7
2.5°	238.3	239.2	240.0	240.0	240.0	240.9	240.9	240.9
5°	261.5	265.8	268.4	270.1	271.9	273.6	275.3	274.4
7.5°	290.8	296.0	300.3	303.7	306.3	308.9	310.6	310.6
10°	317.5	324.3	330.4	335.5	339.8	341.6	344.1	344.1
12.5°	344.1	351.9	358.8	365.6	369.9	373.4	376.0	376.0
15°	366.5	376.0	383.7	391.5	397.5	401.8	403.5	405.2
17.5°	385.4	395.8	405.2	413.8	419.8	424.1	426.7	428.4
20°	400.1	412.1	422.4	431.0	438.8	443.1	445.7	447.4
22.5°	411.2	424.1	435.3	444.8	451.7	456.8	460.3	461.1
25°	419.0	432.7	444.8	454.3	462.0	467.2	470.6	472.3
27.5°	422.4	436.2	449.1	459.4	467.2	473.2	475.8	476.6
30°	423.3	437.1	450.0	460.3	468.9	474.0	476.6	478.3
32.5°	419.8	433.6	446.5	456.8	464.6	469.7	473.2	474.0
35°	413.0	426.7	438.8	449.1	456.8	462.0	465.4	466.3
37.5°	404.4	417.3	429.3	438.8	446.5	451.7	454.3	455.1
40°	393.2	406.1	416.4	425.9	432.7	437.1	440.5	441.4
42.5°	381.1	393.2	403.5	411.2	417.3	422.4	424.1	425.0
45°	367.4	378.5	388.0	394.9	400.1	404.4	406.1	406.1
47.5°	354.5	364.8	372.5	378.5	382.0	385.4	386.3	387.2
50°	341.6	350.2	357.0	361.3	364.8	367.4	368.2	368.2
52.5°	329.5	336.4	341.6	345.9	347.6	350.2	351.0	351.0
55°	317.5	322.6	326.9	329.5	331.2	332.9	332.9	333.8
57.5°	305.4	309.7	312.3	314.0	315.7	316.6	317.5	317.5
60°	292.5	296.0	297.7	298.5	299.4	301.1	301.1	302.0
62.5°	279.6	282.2	283.1	283.9	284.8	285.6	286.5	286.5
65°	265.8	267.6	268.4	269.3	270.1	271.0	272.7	271.9
67.5°	252.1	252.9	253.8	254.7	255.5	257.2	258.1	258.1
70°	237.5	237.5	238.3	239.2	240.0	241.8	242.6	243.5
72.5°	222.0	221.1	222.0	222.8	224.5	226.3	227.1	227.1
75°	203.9	203.9	203.9	203.9	203.9	204.8	204.8	204.8
77.5°	183.3	178.9	178.1	177.2	177.2	177.2	177.2	178.1
80°	154.9	151.4	150.6	149.7	150.6	150.6	150.6	150.6
82.5°	125.6	122.2	121.3	120.4	120.4	120.4	120.4	121.3
85°	90.3	88.6	87.8	86.0	86.9	86.9	87.8	86.9
87.5°	49.0	46.5	46.5	45.6	47.3	46.5	46.5	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)