

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: P188295

Luminaire Tested: **22SR-LD2-29-C-UNV-L835-CD1-MR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188295  
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-LD2-29-C-UNV-L835-CD1-MR-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

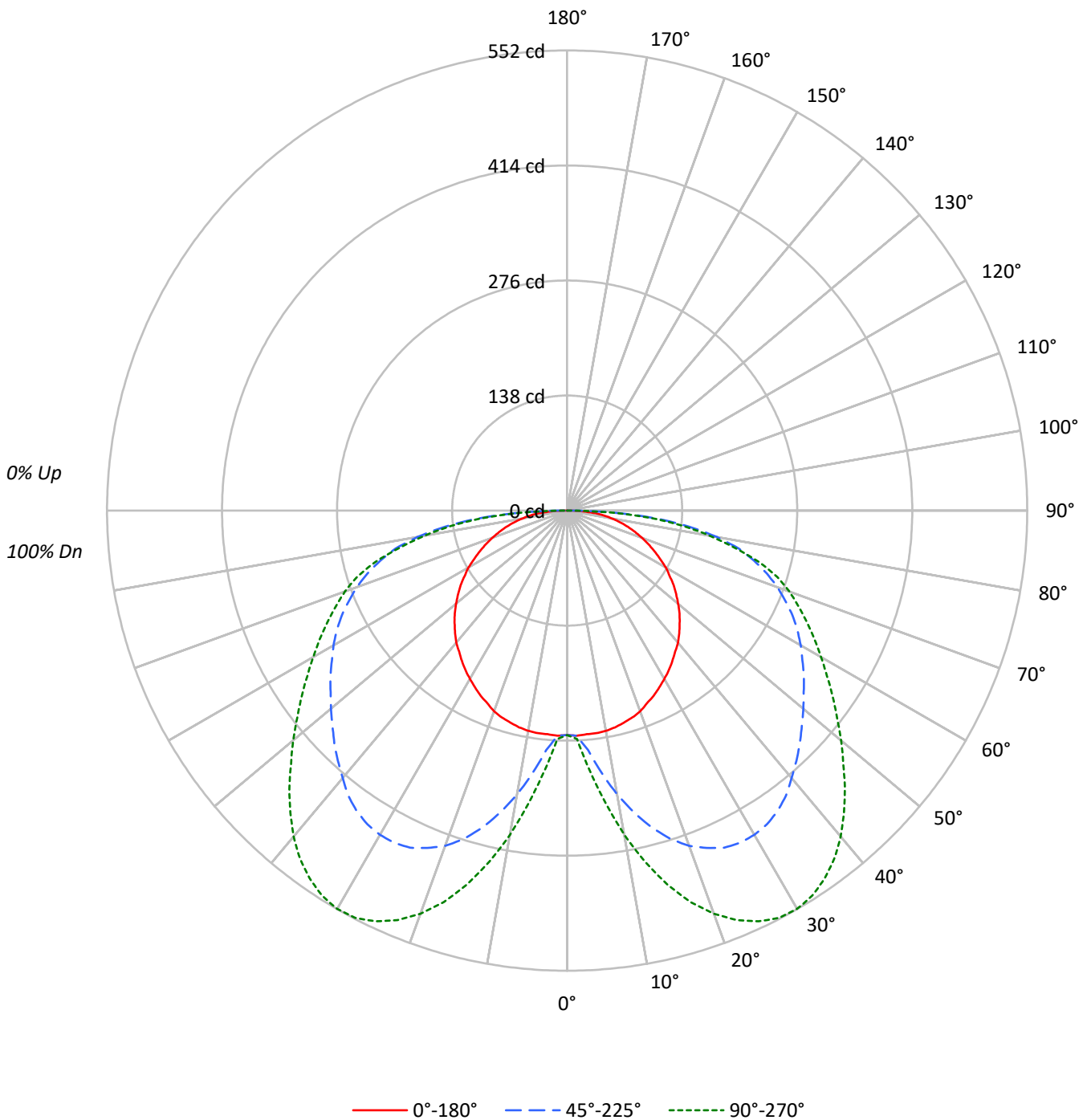
Lumens per Lamp: N/A  
Luminaire Lumens: 1718.0 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	789	789	789
5°	792	848	922
10°	798	1029	1175
15°	799	1195	1408
20°	799	1335	1604
25°	793	1443	1757
30°	789	1520	1867
35°	787	1574	1927
40°	792	1603	1953
45°	791	1636	1953
50°	792	1686	1956
55°	796	1771	1987
60°	801	1896	2061
65°	801	2069	2201
70°	818	2299	2428
75°	854	2628	2697
80°	916	3069	2933
85°	1049	3547	3345



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	1.7
10°-20°	107.8	6.3
20°-30°	195.3	11.4
30°-40°	259.5	15.1
40°-50°	285.3	16.6
50°-60°	282.9	16.5
60°-70°	260.4	15.2
70°-80°	207.9	12.1
80°-90°	89.8	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°	332.3	19.3
0°-40°	591.8	34.4
0°-60°	1159.9	67.5
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	269	269	269	269	269	
5°	269	271	288	308	314	26
15°	263	316	394	446	464	74
25°	245	338	446	518	544	113
35°	220	328	440	514	539	138
45°	191	296	395	452	471	147
55°	156	259	347	381	389	139
65°	116	219	298	313	318	115
75°	75	167	232	237	238	79
85°	31	76	106	100	100	32
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°	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3
2.5°	270.3	270.3	270.3	270.3	269.3	269.3	269.3	269.3	269.3	270.3	271.3
5°	269.3	269.3	269.3	270.3	270.3	272.3	275.3	279.3	283.4	288.4	294.4
7.5°	269.3	269.3	269.3	270.3	275.3	283.4	292.4	301.5	309.5	317.5	326.6
10°	268.3	268.3	268.3	274.3	285.4	298.4	311.5	323.6	334.6	345.7	356.7
12.5°	266.3	266.3	269.3	280.4	296.4	313.5	327.6	343.7	357.7	370.8	383.9
15°	263.3	263.3	269.3	286.4	306.5	324.6	343.7	361.7	378.8	393.9	409.0
17.5°	260.3	260.3	270.3	291.4	313.5	335.6	356.7	376.8	395.9	413.0	429.1
20°	256.2	256.2	270.3	295.4	319.5	343.7	366.8	387.9	409.0	428.1	445.2
22.5°	250.2	252.2	270.3	297.4	323.6	348.7	372.8	396.9	419.0	438.1	457.2
25°	245.2	248.2	269.3	297.4	324.6	351.7	377.8	401.9	425.1	446.2	465.2
27.5°	239.2	243.2	267.3	296.4	324.6	351.7	378.8	404.0	428.1	449.2	469.3
30°	233.1	238.2	264.3	293.4	322.6	350.7	376.8	402.9	427.1	449.2	469.3
32.5°	227.1	233.1	259.3	289.4	318.5	346.7	373.8	399.9	424.0	446.2	466.3
35°	220.1	227.1	254.2	284.4	313.5	341.7	367.8	393.9	418.0	440.1	459.2
37.5°	213.0	221.1	248.2	278.3	306.5	334.6	360.7	385.9	410.0	431.1	450.2
40°	207.0	214.0	241.2	271.3	299.4	326.6	352.7	376.8	399.9	419.0	438.1
42.5°	199.0	208.0	234.1	264.3	291.4	317.5	343.7	366.8	388.9	407.0	425.1
45°	190.9	201.0	227.1	255.2	283.4	308.5	333.6	356.7	376.8	394.9	411.0
47.5°	182.9	192.9	219.1	247.2	274.3	299.4	323.6	345.7	364.8	381.8	397.9
50°	173.8	185.9	211.0	238.2	265.3	290.4	313.5	334.6	353.7	369.8	384.9
52.5°	164.8	177.9	203.0	230.1	255.2	280.4	303.5	323.6	341.7	357.7	370.8
55°	155.8	168.8	194.9	221.1	246.2	272.3	294.4	314.5	332.6	346.7	358.7
57.5°	145.7	160.8	185.9	212.0	237.1	261.3	284.4	304.5	320.5	334.6	345.7
60°	136.7	151.7	176.9	202.0	228.1	252.2	274.3	293.4	309.5	323.6	333.6
62.5°	125.6	142.7	166.8	192.9	218.1	241.2	264.3	283.4	299.4	311.5	319.5
65°	115.6	132.6	156.8	181.9	207.0	231.1	253.2	272.3	286.4	298.4	305.5
67.5°	105.5	122.6	146.7	171.8	195.9	219.1	241.2	259.3	273.3	283.4	289.4
70°	95.5	112.5	135.7	159.8	183.9	207.0	228.1	245.2	258.2	268.3	273.3
72.5°	85.4	102.5	124.6	147.7	170.8	192.9	214.0	230.1	242.2	251.2	256.2
75°	75.4	91.4	112.5	134.7	155.8	177.9	198.0	213.0	225.1	232.1	236.1
77.5°	65.3	80.4	99.5	119.6	140.7	160.8	178.9	193.9	204.0	211.0	213.0
80°	54.3	68.3	84.4	103.5	121.6	140.7	156.8	169.8	178.9	181.9	181.9
82.5°	44.2	54.3	67.3	83.4	98.5	114.6	128.6	139.7	144.7	147.7	146.7
85°	31.2	37.2	46.2	58.3	69.3	83.4	93.5	100.5	104.5	105.5	104.5
87.5°	16.1	17.1	22.1	28.1	34.2	43.2	47.2	53.3	55.3	55.3	55.3
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°	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3
2.5°	271.3	271.3	273.3	273.3	274.3	273.3	274.3	274.3
5°	298.4	302.5	306.5	308.5	311.5	312.5	313.5	313.5
7.5°	331.6	337.6	342.7	345.7	350.7	352.7	353.7	353.7
10°	363.8	371.8	378.8	383.9	388.9	391.9	393.9	394.9
12.5°	393.9	404.0	412.0	419.0	424.0	428.1	430.1	431.1
15°	420.0	432.1	442.1	449.2	456.2	460.2	463.2	464.2
17.5°	443.1	455.2	466.3	475.3	482.3	487.4	490.4	492.4
20°	460.2	474.3	486.3	495.4	504.4	509.5	512.5	514.5
22.5°	473.3	488.4	501.4	511.5	520.5	526.5	529.6	531.6
25°	482.3	498.4	512.5	522.5	532.6	538.6	542.6	543.6
27.5°	487.4	504.4	518.5	529.6	539.6	545.6	549.7	550.7
30°	488.4	504.4	519.5	530.6	540.6	546.6	550.7	551.7
32.5°	485.3	501.4	515.5	527.5	536.6	542.6	546.6	547.6
35°	478.3	494.4	507.5	519.5	528.6	534.6	538.6	538.6
37.5°	467.3	483.3	496.4	507.5	516.5	521.5	525.5	526.5
40°	455.2	469.3	482.3	492.4	500.4	505.4	509.5	510.5
42.5°	441.1	454.2	465.2	474.3	482.3	488.4	490.4	491.4
45°	426.1	438.1	448.2	456.2	463.2	466.3	470.3	471.3
47.5°	411.0	422.0	430.1	437.1	443.1	447.2	449.2	449.2
50°	395.9	405.0	413.0	419.0	423.0	425.1	427.1	429.1
52.5°	381.8	388.9	395.9	399.9	402.9	406.0	407.0	408.0
55°	367.8	374.8	379.8	382.8	384.9	387.9	387.9	388.9
57.5°	353.7	358.7	362.8	364.8	366.8	367.8	368.8	369.8
60°	339.6	343.7	345.7	347.7	348.7	350.7	350.7	351.7
62.5°	325.6	327.6	329.6	330.6	331.6	333.6	334.6	334.6
65°	309.5	311.5	312.5	313.5	314.5	316.5	317.5	317.5
67.5°	293.4	294.4	294.4	296.4	297.4	299.4	299.4	300.5
70°	276.3	276.3	277.3	278.3	279.3	280.4	282.4	283.4
72.5°	258.2	257.2	258.2	259.3	261.3	262.3	263.3	264.3
75°	236.1	236.1	237.1	236.1	236.1	237.1	237.1	238.2
77.5°	212.0	209.0	206.0	206.0	206.0	205.0	205.0	206.0
80°	179.9	175.8	173.8	173.8	172.8	172.8	173.8	173.8
82.5°	143.7	142.7	138.7	138.7	139.7	137.7	138.7	139.7
85°	102.5	101.5	99.5	99.5	99.5	97.5	98.5	99.5
87.5°	54.3	53.3	51.2	52.3	52.3	50.2	52.3	51.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)