

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: P188354

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24639)  
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-L835-CD1-PL-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

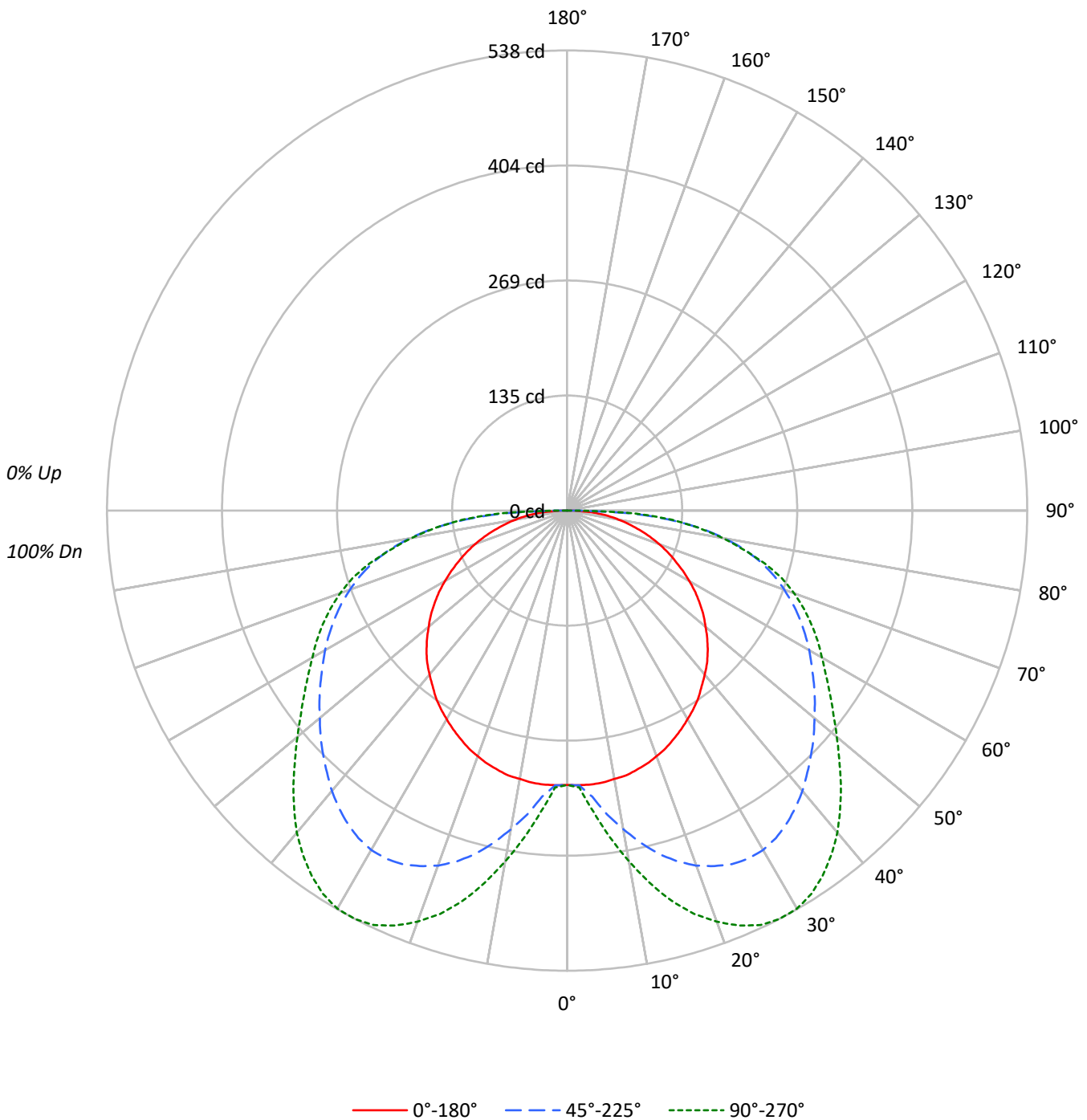
Lumens per Lamp: N/A  
Luminaire Lumens: 1779.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 2 / 1.87  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	88	93	89	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	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	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	34	28	26
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	940	940	940
5°	945	987	1040
10°	948	1125	1239
15°	952	1261	1433
20°	953	1377	1595
25°	953	1475	1729
30°	953	1550	1818
35°	956	1600	1864
40°	957	1637	1880
45°	963	1672	1876
50°	963	1720	1876
55°	968	1799	1918
60°	966	1915	2015
65°	967	2081	2185
70°	978	2314	2419
75°	991	2663	2709
80°	1038	3150	3115
85°	1150	4024	4115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	1.9
10°-20°	114.9	6.5
20°-30°	201.8	11.3
30°-40°	265.6	14.9
40°-50°	292.2	16.4
50°-60°	289.5	16.3
60°-70°	266.4	15.0
70°-80°	213.6	12.0
80°-90°	101.6	5.7
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°	350.0	19.7
0°-40°	615.6	34.6
0°-60°	1197.3	67.3
0°-90°	1779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	321	322	336	349	354	31
15°	314	355	416	457	472	89
25°	295	368	456	514	535	136
35°	267	356	447	503	521	167
45°	232	323	403	442	453	179
55°	189	281	352	373	375	169
65°	140	235	300	310	315	138
75°	88	176	235	239	239	93
85°	34	83	120	120	122	36
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°	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
2.5°	321.4	322.1	321.4	321.4	321.4	321.4	321.4	321.4	321.4	321.4	322.1
5°	321.4	321.4	321.4	321.4	321.4	323.4	325.5	328.2	332.3	335.7	339.8
7.5°	320.7	320.7	320.7	321.4	325.5	330.9	337.8	344.6	352.1	358.3	363.8
10°	318.6	318.6	319.3	324.1	331.6	341.9	351.5	361.0	369.2	378.1	387.0
12.5°	317.3	317.3	319.3	328.2	339.8	352.8	364.4	376.1	387.7	397.9	408.2
15°	313.8	313.8	318.6	331.6	347.4	361.7	376.1	389.7	403.4	415.7	427.4
17.5°	310.4	310.4	317.9	335.0	352.1	368.5	385.0	401.4	416.4	430.1	443.1
20°	305.6	306.3	317.3	336.4	354.9	374.0	392.5	409.6	426.7	441.7	456.1
22.5°	300.9	301.5	315.9	337.1	356.9	377.4	397.3	416.4	434.2	449.9	465.6
25°	294.7	296.8	313.2	335.7	357.6	378.8	400.0	419.8	439.0	456.1	471.8
27.5°	288.5	291.3	309.7	333.0	356.2	378.1	400.0	421.2	440.3	458.8	474.5
30°	281.7	285.1	305.6	329.6	353.5	376.1	398.6	419.8	439.7	458.1	473.8
32.5°	274.9	278.3	300.2	324.8	348.7	372.0	394.5	416.4	435.6	454.0	470.4
35°	267.4	272.1	294.7	319.3	343.9	367.2	389.7	410.9	430.1	447.2	462.9
37.5°	258.5	264.6	287.2	312.5	337.1	360.3	382.2	403.4	421.9	438.3	453.3
40°	250.3	257.1	280.3	305.0	329.6	352.8	374.0	394.5	412.3	428.0	442.4
42.5°	242.1	249.6	272.1	296.8	320.7	343.9	365.1	384.3	401.4	415.7	429.4
45°	232.5	240.7	263.2	287.9	311.8	334.4	354.9	373.3	390.4	403.4	415.7
47.5°	222.2	231.8	254.4	279.0	302.2	324.1	344.6	361.7	377.4	391.1	402.1
50°	211.3	222.2	244.8	269.4	292.0	313.8	333.7	350.8	365.1	377.4	387.7
52.5°	201.0	212.0	234.5	258.5	281.7	303.6	322.7	339.1	352.8	365.1	374.0
55°	189.4	201.0	224.3	247.5	270.8	292.0	311.1	327.5	340.5	352.1	360.3
57.5°	177.8	190.1	212.6	236.6	259.1	281.0	300.2	315.9	328.9	339.1	346.7
60°	164.8	178.5	201.0	225.0	248.2	269.4	288.5	304.3	316.6	326.8	333.0
62.5°	152.5	166.2	190.1	213.3	235.9	257.8	276.9	292.0	304.3	313.8	319.3
65°	139.5	153.8	177.1	201.0	223.6	245.5	263.9	279.7	291.3	300.2	305.6
67.5°	127.2	141.5	164.1	187.4	209.9	232.5	250.3	265.3	276.9	285.8	290.6
70°	114.2	128.5	151.1	173.0	196.2	217.4	235.9	250.9	261.9	270.1	274.9
72.5°	101.2	116.2	136.8	159.3	181.2	203.1	220.2	235.2	246.2	253.7	257.8
75°	87.5	102.6	123.1	142.9	165.5	186.7	203.8	218.1	228.4	235.2	238.6
77.5°	74.5	88.2	108.0	127.9	147.7	168.2	184.6	199.0	207.2	213.3	216.8
80°	61.5	73.8	91.6	110.1	127.9	147.0	162.1	175.0	183.2	186.7	188.7
82.5°	48.5	59.5	73.2	89.6	105.3	121.0	134.7	145.6	151.8	156.6	157.9
85°	34.2	41.0	52.0	63.6	76.6	89.6	101.9	110.1	116.2	119.7	120.3
87.5°	17.8	20.5	26.0	32.8	42.4	51.3	58.1	63.6	68.4	71.8	75.2
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°	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
2.5°	322.1	322.1	323.4	323.4	324.1	324.1	323.4	324.1
5°	342.6	345.3	349.4	349.4	352.1	353.5	353.5	353.5
7.5°	367.9	372.0	376.8	379.5	382.9	385.0	385.6	385.6
10°	392.5	398.6	404.1	408.2	412.3	414.4	416.4	416.4
12.5°	415.7	423.2	430.1	435.6	440.3	443.1	445.1	445.8
15°	436.9	446.5	453.3	460.2	465.6	469.1	471.1	472.5
17.5°	454.7	465.0	473.2	480.0	486.2	490.3	493.7	494.4
20°	468.4	479.3	488.9	496.4	503.2	507.4	510.8	511.5
22.5°	478.6	490.9	501.2	509.4	516.2	521.0	523.8	525.1
25°	485.5	497.8	509.4	518.3	525.8	530.6	532.7	534.7
27.5°	488.9	501.9	513.5	522.4	529.9	534.7	537.4	538.1
30°	488.9	501.2	512.8	521.7	528.5	533.3	536.1	537.4
32.5°	484.1	496.4	507.4	516.2	522.4	527.2	529.9	531.3
35°	476.6	488.2	499.1	506.7	513.5	516.9	520.3	521.0
37.5°	466.3	477.3	487.5	494.4	500.5	503.9	506.7	507.4
40°	454.0	464.3	473.2	479.3	484.8	488.2	490.3	491.6
42.5°	440.3	449.2	456.8	462.2	466.3	469.7	471.1	472.5
45°	425.3	432.8	439.7	444.4	447.9	449.9	452.0	452.7
47.5°	410.3	417.1	422.6	426.7	428.0	430.1	430.8	431.5
50°	395.2	400.7	405.5	407.5	409.6	410.9	410.9	411.6
52.5°	380.2	385.6	387.7	390.4	391.8	392.5	392.5	392.5
55°	365.8	369.9	372.0	373.3	374.0	375.4	375.4	375.4
57.5°	352.1	354.9	355.6	356.9	357.6	359.0	359.0	359.0
60°	337.1	339.8	340.5	341.2	341.9	343.2	343.9	343.9
62.5°	323.4	325.5	324.8	326.2	326.8	328.2	329.6	330.3
65°	308.4	309.7	309.7	310.4	312.5	313.2	314.5	315.2
67.5°	293.3	294.0	294.0	295.4	296.8	298.1	298.8	299.5
70°	276.2	277.6	276.9	278.3	279.7	281.0	282.4	282.4
72.5°	258.5	259.1	259.8	259.1	260.5	261.9	262.6	263.2
75°	237.9	239.3	239.3	237.9	238.6	238.6	239.3	239.3
77.5°	214.0	213.3	211.3	209.9	209.9	210.6	210.6	211.3
80°	186.7	185.3	183.9	182.6	182.6	183.2	183.2	184.6
82.5°	156.6	155.2	153.8	153.2	153.8	153.8	154.5	155.2
85°	121.0	119.0	121.0	119.7	121.0	121.0	121.0	122.4
87.5°	75.2	75.9	77.9	77.3	76.6	77.3	80.0	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)