

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: P188300

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188300  
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-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**

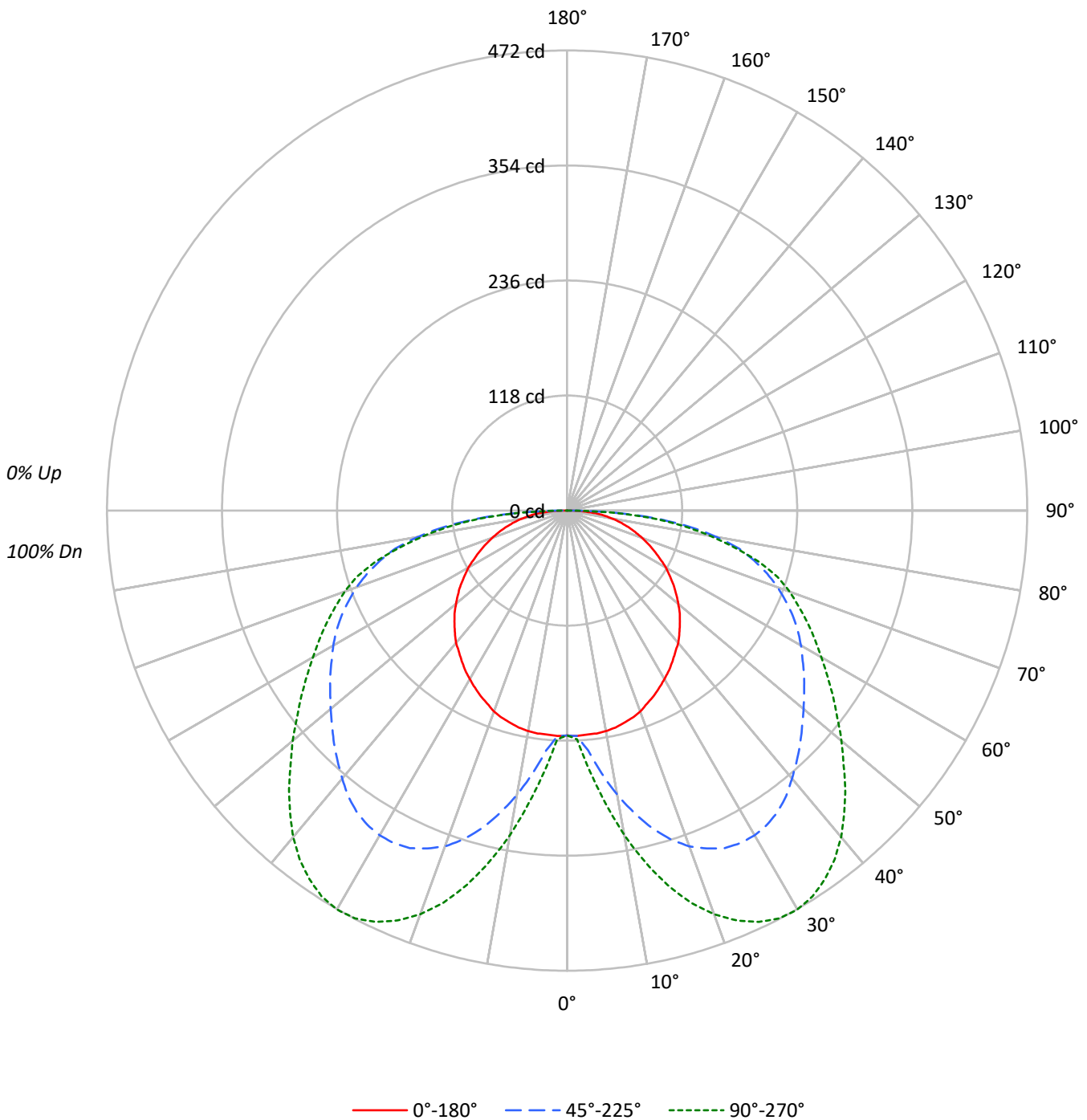
Lumens per Lamp: N/A  
Luminaire Lumens: 1471.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<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	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°	676	676	676
5°	678	726	789
10°	683	881	1006
15°	684	1023	1206
20°	684	1143	1374
25°	679	1235	1505
30°	675	1301	1598
35°	674	1348	1650
40°	678	1372	1672
45°	678	1401	1672
50°	678	1443	1675
55°	681	1516	1701
60°	686	1623	1764
65°	686	1771	1885
70°	700	1968	2078
75°	730	2249	2308
80°	785	2627	2511
85°	898	3036	2864



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	1.7
10°-20°	92.3	6.3
20°-30°	167.2	11.4
30°-40°	222.2	15.1
40°-50°	244.2	16.6
50°-60°	242.2	16.5
60°-70°	223.0	15.2
70°-80°	178.0	12.1
80°-90°	76.9	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°	284.5	19.3
0°-40°	506.7	34.4
0°-60°	993.1	67.5
0°-90°	1471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	231	231	231	231	231	
5°	231	232	247	263	268	22
15°	225	270	337	382	398	64
25°	210	290	382	443	466	97
35°	188	280	377	440	461	118
45°	164	253	338	387	404	126
55°	133	222	297	326	333	119
65°	99	188	256	268	272	98
75°	64	143	199	203	204	68
85°	27	65	90	85	85	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°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6
2.5°	231.4	231.4	231.4	231.4	230.6	230.6	230.6	230.6	230.6	231.4	232.3
5°	230.6	230.6	230.6	231.4	231.4	233.2	235.7	239.2	242.6	246.9	252.1
7.5°	230.6	230.6	230.6	231.4	235.7	242.6	250.4	258.1	265.0	271.9	279.6
10°	229.7	229.7	229.7	234.9	244.3	255.5	266.7	277.0	286.5	296.0	305.4
12.5°	228.0	228.0	230.6	240.0	253.8	268.4	280.5	294.3	306.3	317.5	328.7
15°	225.4	225.4	230.6	245.2	262.4	277.9	294.3	309.7	324.4	337.3	350.2
17.5°	222.8	222.8	231.4	249.5	268.4	287.4	305.4	322.6	339.0	353.6	367.4
20°	219.4	219.4	231.4	253.0	273.6	294.3	314.0	332.1	350.2	366.5	381.2
22.5°	214.2	216.0	231.4	254.7	277.0	298.6	319.2	339.9	358.8	375.1	391.5
25°	209.9	212.5	230.6	254.7	277.9	301.1	323.5	344.2	363.9	382.0	398.4
27.5°	204.8	208.2	228.9	253.8	277.9	301.1	324.4	345.9	366.5	384.6	401.8
30°	199.6	203.9	226.3	251.2	276.2	300.3	322.6	345.0	365.7	384.6	401.8
32.5°	194.4	199.6	222.0	247.8	272.7	296.8	320.1	342.4	363.1	382.0	399.2
35°	188.4	194.4	217.7	243.5	268.4	292.5	314.9	337.3	357.9	376.8	393.2
37.5°	182.4	189.3	212.5	238.3	262.4	286.5	308.9	330.4	351.0	369.1	385.5
40°	177.2	183.3	206.5	232.3	256.4	279.6	302.0	322.6	342.4	358.8	375.1
42.5°	170.4	178.1	200.5	226.3	249.5	271.9	294.3	314.0	333.0	348.5	363.9
45°	163.5	172.1	194.4	218.5	242.6	264.1	285.6	305.4	322.6	338.1	351.9
47.5°	156.6	165.2	187.6	211.7	234.9	256.4	277.0	296.0	312.3	326.9	340.7
50°	148.8	159.2	180.7	203.9	227.1	248.7	268.4	286.5	302.9	316.6	329.5
52.5°	141.1	152.3	173.8	197.0	218.5	240.0	259.8	277.0	292.5	306.3	317.5
55°	133.4	144.5	166.9	189.3	210.8	233.2	252.1	269.3	284.8	296.8	307.2
57.5°	124.8	137.7	159.2	181.5	203.1	223.7	243.5	260.7	274.5	286.5	296.0
60°	117.0	129.9	151.4	172.9	195.3	216.0	234.9	251.2	265.0	277.0	285.6
62.5°	107.5	122.2	142.8	165.2	186.7	206.5	226.3	242.6	256.4	266.7	273.6
65°	98.9	113.6	134.2	155.7	177.2	197.9	216.8	233.2	245.2	255.5	261.6
67.5°	90.3	105.0	125.6	147.1	167.8	187.6	206.5	222.0	234.0	242.6	247.8
70°	81.7	96.4	116.2	136.8	157.5	177.2	195.3	209.9	221.1	229.7	234.0
72.5°	73.1	87.8	106.7	126.5	146.3	165.2	183.3	197.0	207.4	215.1	219.4
75°	64.5	78.3	96.4	115.3	133.4	152.3	169.5	182.4	192.7	198.7	202.2
77.5°	55.9	68.8	85.2	102.4	120.5	137.7	153.1	166.1	174.7	180.7	182.4
80°	46.5	58.5	72.3	88.6	104.1	120.5	134.2	145.4	153.1	155.7	155.7
82.5°	37.9	46.5	57.6	71.4	84.3	98.1	110.1	119.6	123.9	126.5	125.6
85°	26.7	31.8	39.6	49.9	59.4	71.4	80.0	86.0	89.5	90.3	89.5
87.5°	13.8	14.6	18.9	24.1	29.3	37.0	40.4	45.6	47.3	47.3	47.3
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°	230.6	230.6	230.6	230.6	230.6	230.6	230.6	230.6
2.5°	232.3	232.3	234.0	234.0	234.9	234.0	234.9	234.9
5°	255.5	259.0	262.4	264.1	266.7	267.6	268.4	268.4
7.5°	283.9	289.1	293.4	296.0	300.3	302.0	302.9	302.9
10°	311.5	318.3	324.4	328.7	333.0	335.5	337.3	338.1
12.5°	337.3	345.9	352.8	358.8	363.1	366.5	368.2	369.1
15°	359.6	370.0	378.6	384.6	390.6	394.1	396.6	397.5
17.5°	379.4	389.8	399.2	407.0	413.0	417.3	419.9	421.6
20°	394.1	406.1	416.4	424.2	431.9	436.2	438.8	440.5
22.5°	405.2	418.1	429.3	437.9	445.7	450.8	453.4	455.1
25°	413.0	426.8	438.8	447.4	456.0	461.2	464.6	465.5
27.5°	417.3	431.9	444.0	453.4	462.0	467.2	470.6	471.5
30°	418.1	431.9	444.8	454.3	462.9	468.0	471.5	472.4
32.5°	415.6	429.3	441.4	451.7	459.4	464.6	468.0	468.9
35°	409.5	423.3	434.5	444.8	452.6	457.7	461.2	461.2
37.5°	400.1	413.8	425.0	434.5	442.2	446.5	450.0	450.8
40°	389.8	401.8	413.0	421.6	428.5	432.8	436.2	437.1
42.5°	377.7	388.9	398.4	406.1	413.0	418.1	419.9	420.7
45°	364.8	375.1	383.7	390.6	396.6	399.2	402.7	403.5
47.5°	351.9	361.4	368.2	374.3	379.4	382.9	384.6	384.6
50°	339.0	346.7	353.6	358.8	362.2	363.9	365.7	367.4
52.5°	326.9	333.0	339.0	342.4	345.0	347.6	348.5	349.3
55°	314.9	320.9	325.2	327.8	329.5	332.1	332.1	333.0
57.5°	302.9	307.2	310.6	312.3	314.0	314.9	315.8	316.6
60°	290.8	294.3	296.0	297.7	298.6	300.3	300.3	301.1
62.5°	278.8	280.5	282.2	283.1	283.9	285.6	286.5	286.5
65°	265.0	266.7	267.6	268.4	269.3	271.0	271.9	271.9
67.5°	251.2	252.1	252.1	253.8	254.7	256.4	256.4	257.3
70°	236.6	236.6	237.5	238.3	239.2	240.0	241.8	242.6
72.5°	221.1	220.3	221.1	222.0	223.7	224.6	225.4	226.3
75°	202.2	202.2	203.1	202.2	202.2	203.1	203.1	203.9
77.5°	181.5	179.0	176.4	176.4	176.4	175.5	175.5	176.4
80°	154.0	150.6	148.8	148.8	148.0	148.0	148.8	148.8
82.5°	123.0	122.2	118.7	118.7	119.6	117.9	118.7	119.6
85°	87.8	86.9	85.2	85.2	85.2	83.5	84.3	85.2
87.5°	46.5	45.6	43.9	44.7	44.7	43.0	44.7	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)