

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: P188332

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188332
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-LD2-19-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: 1128.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

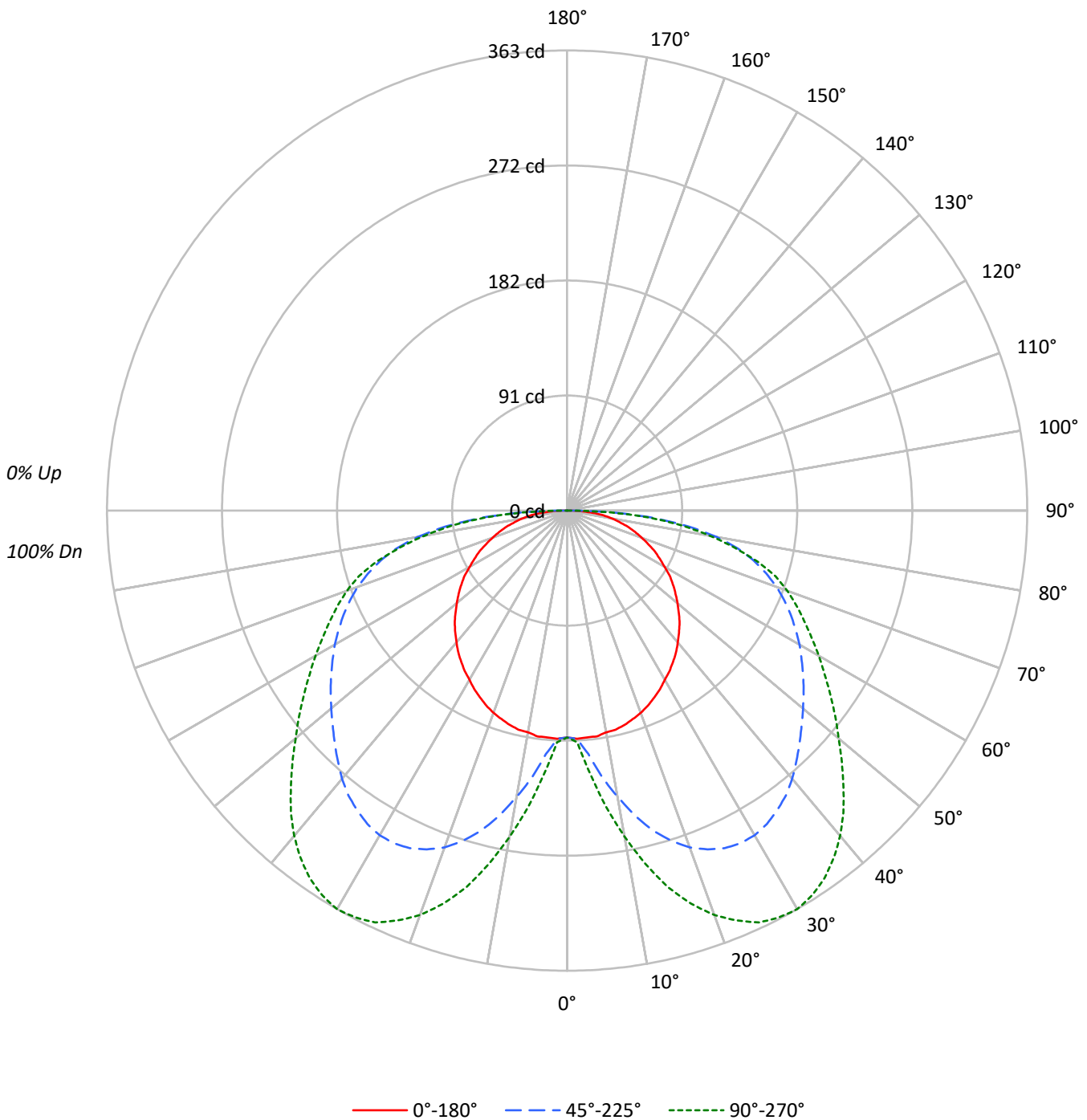
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	524	524	524
5°	528	567	613
10°	528	682	777
15°	531	792	933
20°	529	882	1059
25°	526	950	1159
30°	521	1001	1228
35°	521	1033	1266
40°	519	1056	1281
45°	520	1074	1277
50°	518	1107	1274
55°	521	1161	1294
60°	520	1240	1343
65°	530	1349	1431
70°	537	1505	1583
75°	562	1723	1759
80°	606	2016	1929
85°	679	2350	2219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	1.7
10°-20°	71.4	6.3
20°-30°	128.8	11.4
30°-40°	170.6	15.1
40°-50°	187.3	16.6
50°-60°	185.2	16.4
60°-70°	170.1	15.1
70°-80°	136.0	12.1
80°-90°	59.3	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°	219.6	19.5
0°-40°	390.2	34.6
0°-60°	762.7	67.6
0°-90°	1128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	179	179	179	179	179	
5°	180	181	193	204	208	17
15°	175	209	261	294	308	49
25°	163	224	294	341	358	75
35°	146	216	289	337	354	91
45°	125	195	259	297	308	97
55°	102	170	227	249	253	91
65°	76	143	195	204	206	75
75°	50	109	152	155	155	52
85°	20	50	70	66	66	21
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°	178.9	178.9	178.9	178.9	178.9	178.9	178.9	178.9	178.9	178.9	178.9
2.5°	180.2	180.2	179.6	180.2	179.6	180.2	179.6	179.6	180.2	180.2	180.9
5°	179.6	179.6	179.6	179.6	180.2	181.6	183.5	186.1	189.4	192.7	195.9
7.5°	179.6	179.6	179.6	180.2	183.5	188.7	194.6	200.5	207.0	212.2	216.8
10°	177.6	178.3	178.3	182.2	189.4	197.9	207.0	214.2	222.0	229.2	235.8
12.5°	177.0	177.6	178.9	186.1	196.6	208.3	218.1	227.9	237.7	246.2	254.0
15°	175.0	175.0	179.6	190.0	203.1	215.5	227.9	239.7	250.8	261.2	270.4
17.5°	172.4	172.4	179.6	193.3	207.7	222.0	235.8	248.8	261.9	273.0	283.4
20°	169.8	170.5	179.6	195.9	211.6	227.9	242.3	256.7	270.4	282.8	294.5
22.5°	166.5	167.2	179.6	197.2	214.2	231.2	246.9	261.9	276.2	289.3	301.7
25°	162.6	164.6	178.3	196.6	214.9	232.5	248.8	265.1	280.8	293.9	306.9
27.5°	158.7	161.3	176.3	195.3	214.2	232.5	249.5	266.5	281.5	295.8	308.9
30°	154.1	157.4	174.4	194.0	212.9	231.2	248.8	265.8	281.5	295.8	308.9
32.5°	150.2	154.1	171.8	191.3	210.3	228.6	246.2	263.2	278.9	293.2	306.3
35°	145.6	149.6	167.8	187.4	206.4	224.7	242.3	258.6	274.9	288.7	301.7
37.5°	141.1	145.6	163.9	183.5	202.5	220.7	237.7	254.0	269.1	283.4	295.8
40°	135.8	141.1	159.3	178.9	197.2	214.9	231.8	247.5	262.5	276.2	288.0
42.5°	130.6	136.5	154.1	173.7	192.0	209.6	226.0	241.0	255.3	267.8	278.9
45°	125.4	131.9	149.6	167.8	186.1	203.1	218.8	233.8	246.9	259.3	269.7
47.5°	119.5	126.7	144.3	162.6	180.2	196.6	212.2	226.6	239.7	250.8	260.6
50°	113.6	121.5	139.1	156.7	173.7	190.7	205.7	219.4	231.8	242.9	252.1
52.5°	107.8	116.2	133.2	150.9	167.8	184.2	199.2	212.2	224.7	235.1	242.9
55°	101.9	110.4	128.0	145.0	162.0	177.6	192.7	205.7	217.5	227.3	234.5
57.5°	96.0	105.1	122.1	138.5	155.4	171.8	186.1	199.2	210.3	219.4	226.6
60°	88.8	99.3	115.6	132.6	148.9	165.2	179.6	192.0	203.1	211.6	218.1
62.5°	82.3	93.4	109.7	126.0	142.4	158.0	172.4	184.8	195.3	203.1	209.0
65°	76.4	86.9	103.2	118.9	135.2	151.5	165.2	177.6	187.4	194.6	199.8
67.5°	69.2	80.3	96.0	111.7	128.0	143.7	157.4	169.1	178.9	185.5	190.0
70°	62.7	73.8	88.8	104.5	120.2	135.2	148.9	160.7	169.1	175.7	178.9
72.5°	56.2	67.3	81.6	96.7	111.7	126.7	139.8	150.2	158.7	164.6	167.2
75°	49.6	60.1	73.8	88.2	101.9	116.2	129.3	139.8	146.9	152.2	154.1
77.5°	42.4	52.9	65.3	78.4	91.4	105.1	116.9	126.7	133.9	137.8	139.8
80°	35.9	44.4	55.5	67.9	79.7	92.1	102.5	111.0	116.9	119.5	118.9
82.5°	28.7	35.3	44.4	54.9	64.7	75.1	84.2	91.4	95.3	96.7	96.7
85°	20.2	24.2	30.7	37.9	45.7	53.6	60.7	66.0	69.2	69.9	69.9
87.5°	10.4	11.8	14.4	18.3	22.2	26.8	32.0	35.3	36.6	37.2	37.2
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°	178.9	178.9	178.9	178.9	178.9	178.9	178.9	178.9
2.5°	180.9	181.6	182.2	182.2	182.2	182.9	182.9	182.9
5°	198.5	201.8	203.8	205.1	206.4	207.7	209.0	208.3
7.5°	220.7	224.7	227.9	230.5	232.5	234.5	235.8	235.8
10°	241.0	246.2	250.8	254.7	258.0	259.3	261.2	261.2
12.5°	261.2	267.1	272.3	277.6	280.8	283.4	285.4	285.4
15°	278.2	285.4	291.3	297.1	301.7	305.0	306.3	307.6
17.5°	292.6	300.4	307.6	314.1	318.7	322.0	323.9	325.2
20°	303.7	312.8	320.7	327.2	333.1	336.3	338.3	339.6
22.5°	312.2	322.0	330.5	337.6	342.9	346.8	349.4	350.0
25°	318.0	328.5	337.6	344.8	350.7	354.6	357.2	358.5
27.5°	320.7	331.1	340.9	348.7	354.6	359.2	361.1	361.8
30°	321.3	331.8	341.6	349.4	355.9	359.8	361.8	363.1
32.5°	318.7	329.1	338.9	346.8	352.7	356.6	359.2	359.8
35°	313.5	323.9	333.1	340.9	346.8	350.7	353.3	354.0
37.5°	306.9	316.7	325.9	333.1	338.9	342.9	344.8	345.5
40°	298.5	308.2	316.1	323.3	328.5	331.8	334.4	335.0
42.5°	289.3	298.5	306.3	312.2	316.7	320.7	322.0	322.6
45°	278.9	287.3	294.5	299.8	303.7	306.9	308.2	308.2
47.5°	269.1	276.9	282.8	287.3	290.0	292.6	293.2	293.9
50°	259.3	265.8	271.0	274.3	276.9	278.9	279.5	279.5
52.5°	250.1	255.3	259.3	262.5	263.8	265.8	266.5	266.5
55°	241.0	244.9	248.2	250.1	251.4	252.7	252.7	253.4
57.5°	231.8	235.1	237.1	238.4	239.7	240.3	241.0	241.0
60°	222.0	224.7	226.0	226.6	227.3	228.6	228.6	229.2
62.5°	212.2	214.2	214.9	215.5	216.2	216.8	217.5	217.5
65°	201.8	203.1	203.8	204.4	205.1	205.7	207.0	206.4
67.5°	191.3	192.0	192.7	193.3	194.0	195.3	195.9	195.9
70°	180.2	180.2	180.9	181.6	182.2	183.5	184.2	184.8
72.5°	168.5	167.8	168.5	169.1	170.5	171.8	172.4	172.4
75°	154.8	154.8	154.8	154.8	154.8	155.4	155.4	155.4
77.5°	139.1	135.8	135.2	134.5	134.5	134.5	134.5	135.2
80°	117.6	114.9	114.3	113.6	114.3	114.3	114.3	114.3
82.5°	95.3	92.7	92.1	91.4	91.4	91.4	91.4	92.1
85°	68.6	67.3	66.6	65.3	66.0	66.0	66.6	66.0
87.5°	37.2	35.3	35.3	34.6	35.9	35.3	35.3	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)