

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: P188272

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24796)
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-BR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1461.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 2.23 / 2.03
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

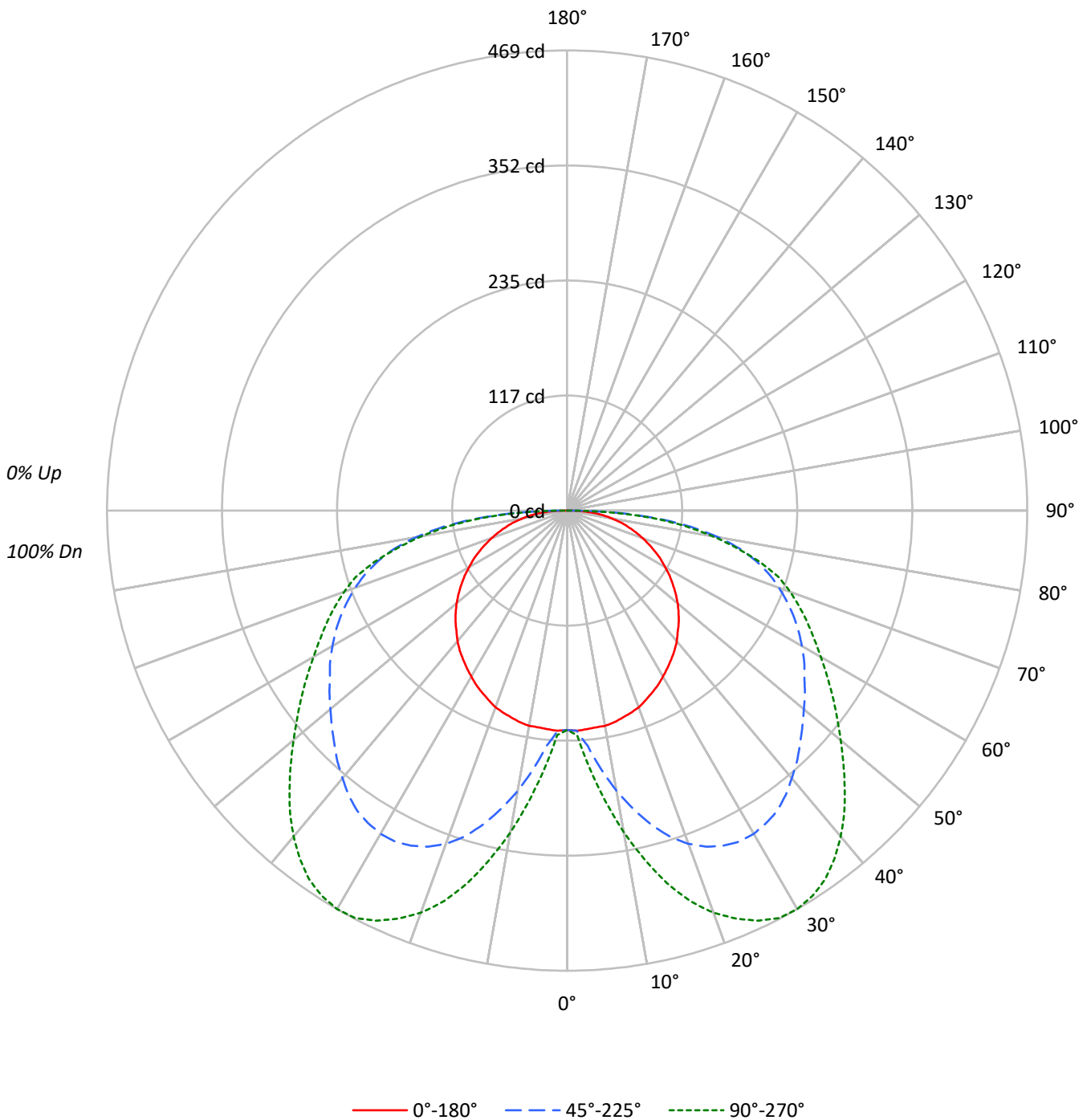
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	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	64	62
3	85	73	64	56	83	72	63	56	68	61	55	66	59	54	63	57	53	50
4	78	64	54	46	75	63	53	46	60	52	45	57	50	45	55	49	44	42
5	71	56	46	39	69	55	46	39	53	45	38	51	44	38	49	43	37	35
6	65	50	41	33	63	49	40	33	47	39	33	46	38	33	44	37	32	30
7	60	45	36	29	58	44	35	29	43	35	29	41	34	28	40	33	28	26
8	56	41	32	26	54	40	32	25	39	31	25	38	30	25	36	30	25	23
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	655	655	655
5°	658	709	774
10°	663	863	991
15°	663	1005	1193
20°	665	1127	1360
25°	662	1219	1491
30°	661	1287	1586
35°	662	1336	1640
40°	665	1362	1659
45°	667	1391	1658
50°	671	1435	1659
55°	672	1507	1688
60°	676	1619	1750
65°	686	1766	1873
70°	700	1968	2071
75°	730	2260	2308
80°	785	2642	2541
85°	898	3096	2952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	1.7
10°-20°	90.6	6.2
20°-30°	165.0	11.3
30°-40°	220.0	15.1
40°-50°	242.3	16.6
50°-60°	240.8	16.5
60°-70°	222.1	15.2
70°-80°	178.0	12.2
80°-90°	77.7	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°	280.0	19.2
0°-40°	500.0	34.2
0°-60°	983.2	67.3
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	224	224	224	224	224	
5°	224	225	241	257	263	21
15°	218	264	331	376	393	62
25°	205	284	377	438	461	95
35°	185	277	373	437	459	116
45°	161	251	336	385	400	124
55°	132	221	295	325	330	118
65°	99	187	255	266	270	98
75°	64	143	200	203	204	68
85°	27	66	92	86	88	27
90°	0	0	0	0	0	



TEST NUMBER: P188272

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L835-CD1-BR-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7
2.5°	224.6	224.6	224.6	223.7	223.7	223.7	223.7	223.7	223.7	224.6	224.6
5°	223.7	223.7	224.6	223.7	224.6	226.3	228.9	233.2	235.8	240.9	244.4
7.5°	222.8	223.7	223.7	225.4	228.9	235.8	242.6	251.2	259.0	265.9	271.9
10°	222.8	222.8	223.7	228.0	237.5	248.7	259.8	270.2	279.6	290.0	298.6
12.5°	221.1	221.1	223.7	233.2	246.9	261.6	273.6	287.4	300.3	311.5	321.8
15°	218.5	219.4	224.6	238.3	255.5	271.9	287.4	302.9	318.4	331.3	343.3
17.5°	216.0	216.8	225.4	243.5	262.4	281.4	298.6	316.6	333.0	348.5	361.4
20°	213.4	213.4	226.3	246.9	267.6	289.1	308.0	327.0	345.0	361.4	376.0
22.5°	209.1	210.8	226.3	249.5	271.9	293.4	314.1	334.7	353.6	370.8	386.3
25°	204.8	207.4	225.4	249.5	272.8	296.0	317.5	339.0	358.8	376.9	393.2
27.5°	200.5	203.1	223.7	248.7	273.6	296.8	320.1	341.6	362.2	380.3	397.5
30°	195.3	199.6	221.1	246.1	271.9	296.0	318.4	340.7	361.4	380.3	397.5
32.5°	190.2	195.3	218.5	243.5	269.3	292.5	316.6	338.1	358.8	377.7	395.8
35°	185.0	190.2	214.2	240.1	265.0	289.1	312.3	333.8	353.6	373.4	389.8
37.5°	179.8	185.9	209.1	234.9	259.8	283.1	306.3	327.8	347.6	365.7	382.0
40°	173.8	180.7	203.9	228.9	253.0	276.2	298.6	319.2	339.0	356.2	371.7
42.5°	166.9	174.7	197.9	222.8	246.9	269.3	291.7	311.5	329.5	346.7	361.4
45°	160.9	169.5	191.9	216.0	240.1	261.6	283.9	302.9	320.1	335.6	349.3
47.5°	154.0	163.5	185.9	209.1	232.3	254.7	275.3	293.4	309.8	325.2	338.1
50°	147.1	156.6	179.0	202.2	225.4	246.9	266.7	284.8	300.3	314.9	327.0
52.5°	139.4	150.6	172.1	195.3	217.7	239.2	258.1	276.2	291.7	305.4	315.8
55°	131.6	142.8	165.2	188.4	209.9	231.5	250.4	267.6	282.2	295.1	305.4
57.5°	123.9	135.9	158.3	180.7	202.2	223.7	241.8	259.0	273.6	286.5	295.1
60°	115.3	129.1	150.6	172.9	194.5	215.1	234.0	250.4	264.1	276.2	283.9
62.5°	107.6	121.3	142.8	164.3	185.9	206.5	225.4	241.8	254.7	265.9	272.8
65°	98.9	112.7	134.2	155.7	176.4	197.0	216.0	231.5	244.4	254.7	260.7
67.5°	90.3	105.0	125.6	146.3	167.8	187.6	205.6	221.1	233.2	242.6	247.8
70°	81.7	96.4	116.2	136.8	157.5	177.2	194.5	209.9	221.1	229.7	234.0
72.5°	73.1	87.8	106.7	126.5	146.3	166.1	182.4	197.0	207.4	216.0	219.4
75°	64.5	78.3	96.4	114.4	133.4	153.2	168.6	182.4	192.7	199.6	202.2
77.5°	55.9	68.8	85.2	102.4	120.5	138.5	154.0	166.1	174.7	180.7	182.4
80°	46.5	58.5	73.1	88.6	104.1	121.3	134.2	145.4	153.2	156.6	155.7
82.5°	37.0	46.5	58.5	71.4	84.3	98.9	110.1	118.7	124.8	127.3	125.6
85°	26.7	32.7	40.4	49.9	60.2	71.4	80.0	86.0	90.3	92.1	90.3
87.5°	13.8	15.5	18.9	23.2	29.3	37.0	42.2	47.3	47.3	49.0	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188272

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L835-CD1-BR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7
2.5°	225.4	225.4	226.3	227.2	227.2	227.2	227.2	228.9
5°	249.5	252.1	255.5	258.1	259.0	259.8	261.6	263.3
7.5°	277.1	282.2	285.7	291.7	293.4	295.1	296.0	298.6
10°	306.3	313.2	317.5	322.7	327.0	328.7	330.4	333.0
12.5°	330.4	339.0	345.9	352.8	356.2	360.5	361.4	364.0
15°	354.5	364.0	371.7	379.4	384.6	388.0	390.6	393.2
17.5°	374.3	383.7	393.2	402.7	407.8	412.1	414.7	417.3
20°	388.9	401.0	411.3	420.7	425.9	431.1	433.7	436.2
22.5°	400.1	413.0	424.2	433.7	440.5	446.6	449.1	450.0
25°	408.7	421.6	433.7	443.1	450.9	456.9	459.5	461.2
27.5°	413.0	426.8	439.7	450.0	457.7	463.8	466.3	468.1
30°	413.9	427.6	440.5	450.9	458.6	464.6	467.2	468.9
32.5°	411.3	425.9	438.0	448.3	456.0	462.0	464.6	465.5
35°	405.3	419.9	431.9	441.4	449.1	454.3	457.7	458.6
37.5°	396.7	410.4	421.6	431.1	438.8	444.0	446.6	447.4
40°	386.3	398.4	409.6	418.2	425.0	430.2	432.8	433.7
42.5°	375.1	386.3	395.8	404.4	410.4	414.7	417.3	418.2
45°	362.2	372.6	382.0	388.9	394.1	397.5	400.1	400.1
47.5°	349.3	358.8	367.4	372.6	376.9	379.4	381.2	382.0
50°	337.3	345.9	351.9	357.1	360.5	362.2	364.0	364.0
52.5°	325.2	332.1	337.3	340.7	344.2	345.0	346.7	346.7
55°	314.1	319.2	323.5	326.1	327.8	328.7	329.5	330.4
57.5°	302.0	306.3	308.9	310.6	312.3	313.2	313.2	314.1
60°	290.0	293.4	295.1	296.0	296.8	297.7	298.6	298.6
62.5°	277.1	279.6	280.5	281.4	282.2	283.1	283.9	283.9
65°	264.1	265.9	265.9	266.7	267.6	269.3	269.3	270.2
67.5°	250.4	251.2	251.2	252.1	253.0	254.7	255.5	256.4
70°	235.8	236.6	236.6	237.5	238.3	239.2	240.9	241.8
72.5°	220.3	220.3	220.3	221.1	222.8	223.7	225.4	226.3
75°	203.1	202.2	203.1	202.2	202.2	203.1	203.1	203.9
77.5°	181.5	179.0	177.2	176.4	175.5	175.5	176.4	177.2
80°	154.0	151.4	149.7	148.9	148.9	149.7	149.7	150.6
82.5°	124.8	122.2	120.5	120.5	119.6	120.5	120.5	121.3
85°	90.3	88.6	86.9	86.0	86.0	86.9	86.9	87.8
87.5°	48.2	47.3	46.5	46.5	44.7	46.5	46.5	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)