

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: P188350

Luminaire Tested: **22SR-LD2-20-C-UNV-L840-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188350
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-L840-CD1-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1815.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 2 / 1.87
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

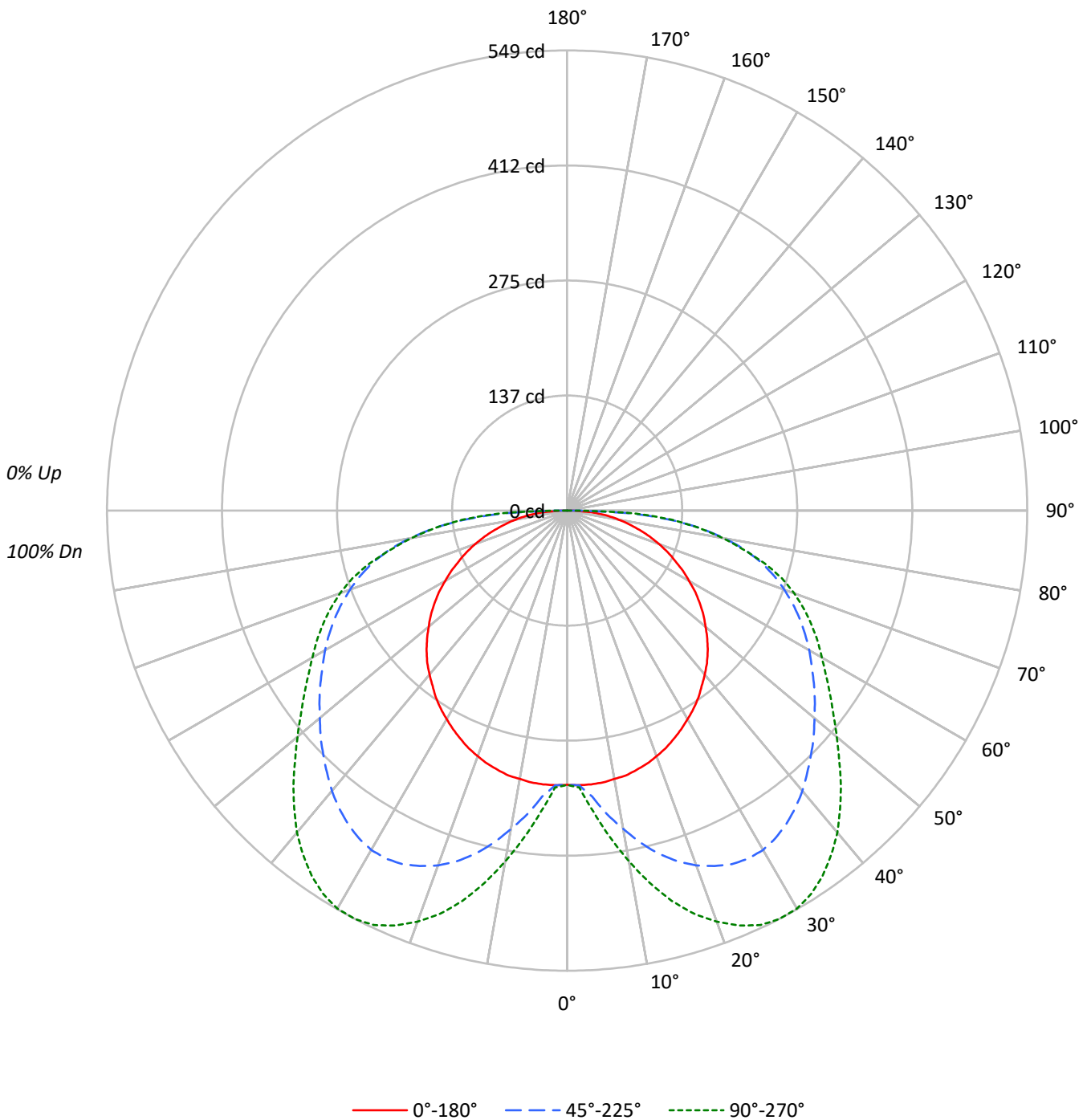
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	959	959	959
5°	964	1007	1061
10°	967	1148	1264
15°	971	1286	1462
20°	972	1405	1627
25°	972	1504	1764
30°	972	1581	1855
35°	976	1632	1902
40°	977	1670	1919
45°	983	1706	1914
50°	983	1755	1915
55°	987	1835	1957
60°	985	1954	2056
65°	987	2123	2230
70°	998	2361	2468
75°	1011	2717	2765
80°	1060	3213	3179
85°	1173	4105	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.9
10°-20°	117.2	6.5
20°-30°	205.9	11.3
30°-40°	271.0	14.9
40°-50°	298.1	16.4
50°-60°	295.4	16.3
60°-70°	271.8	15.0
70°-80°	217.9	12.0
80°-90°	103.7	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°	357.1	19.7
0°-40°	628.1	34.6
0°-60°	1221.6	67.3
0°-90°	1815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	327	327	327	327	327	
5°	328	329	342	356	361	31
15°	320	362	424	466	482	90
25°	301	376	465	524	546	139
35°	273	363	456	513	532	171
45°	237	330	412	451	462	183
55°	193	287	359	380	383	173
65°	142	239	306	316	322	141
75°	89	180	240	244	244	95
85°	35	85	122	123	125	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°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	327.9	328.6	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9	328.6
5°	327.9	327.9	327.9	327.9	327.9	330.0	332.1	334.8	339.0	342.5	346.7
7.5°	327.2	327.2	327.2	327.9	332.1	337.6	344.6	351.6	359.3	365.5	371.1
10°	325.1	325.1	325.8	330.7	338.3	348.8	358.6	368.3	376.7	385.8	394.8
12.5°	323.7	323.7	325.8	334.8	346.7	360.0	371.8	383.7	395.5	406.0	416.5
15°	320.2	320.2	325.1	338.3	354.4	369.0	383.7	397.6	411.6	424.1	436.0
17.5°	316.7	316.7	324.4	341.8	359.3	376.0	392.7	409.5	424.8	438.8	452.0
20°	311.8	312.5	323.7	343.2	362.1	381.6	400.4	417.9	435.3	450.6	465.3
22.5°	306.9	307.6	322.3	343.9	364.1	385.1	405.3	424.8	443.0	459.0	475.1
25°	300.7	302.8	319.5	342.5	364.8	386.5	408.1	428.3	447.9	465.3	481.3
27.5°	294.4	297.2	316.0	339.7	363.4	385.8	408.1	429.7	449.3	468.1	484.1
30°	287.4	290.9	311.8	336.2	360.7	383.7	406.7	428.3	448.6	467.4	483.4
32.5°	280.4	283.9	306.2	331.4	355.8	379.5	402.5	424.8	444.4	463.2	479.9
35°	272.8	277.6	300.7	325.8	350.9	374.6	397.6	419.3	438.8	456.2	472.3
37.5°	263.7	270.0	293.0	318.8	343.9	367.6	390.0	411.6	430.4	447.2	462.5
40°	255.3	262.3	286.0	311.1	336.2	360.0	381.6	402.5	420.7	436.7	451.3
42.5°	246.9	254.6	277.6	302.8	327.2	350.9	372.5	392.1	409.5	424.1	438.1
45°	237.2	245.6	268.6	293.7	318.1	341.1	362.1	380.9	398.3	411.6	424.1
47.5°	226.7	236.5	259.5	284.6	308.3	330.7	351.6	369.0	385.1	399.0	410.2
50°	215.6	226.7	249.7	274.9	297.9	320.2	340.4	357.9	372.5	385.1	395.5
52.5°	205.1	216.3	239.3	263.7	287.4	309.7	329.3	346.0	360.0	372.5	381.6
55°	193.2	205.1	228.8	252.5	276.2	297.9	317.4	334.1	347.4	359.3	367.6
57.5°	181.4	193.9	217.0	241.4	264.4	286.7	306.2	322.3	335.5	346.0	353.7
60°	168.1	182.1	205.1	229.5	253.2	274.9	294.4	310.4	323.0	333.5	339.7
62.5°	155.6	169.5	193.9	217.7	240.7	263.0	282.5	297.9	310.4	320.2	325.8
65°	142.3	157.0	180.7	205.1	228.1	250.4	269.3	285.3	297.2	306.2	311.8
67.5°	129.8	144.4	167.4	191.1	214.2	237.2	255.3	270.7	282.5	291.6	296.5
70°	116.5	131.1	154.2	176.5	200.2	221.8	240.7	256.0	267.2	275.6	280.4
72.5°	103.2	118.6	139.5	162.5	184.9	207.2	224.6	240.0	251.1	258.8	263.0
75°	89.3	104.6	125.6	145.8	168.8	190.4	207.9	222.5	233.0	240.0	243.5
77.5°	76.0	90.0	110.2	130.5	150.7	171.6	188.4	203.0	211.4	217.7	221.1
80°	62.8	75.3	93.5	112.3	130.5	150.0	165.3	178.6	187.0	190.4	192.5
82.5°	49.5	60.7	74.6	91.4	107.4	123.5	137.4	148.6	154.9	159.7	161.1
85°	34.9	41.9	53.0	64.9	78.1	91.4	103.9	112.3	118.6	122.1	122.8
87.5°	18.1	20.9	26.5	33.5	43.3	52.3	59.3	64.9	69.8	73.2	76.7
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°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	328.6	328.6	330.0	330.0	330.7	330.7	330.0	330.7
5°	349.5	352.3	356.5	356.5	359.3	360.7	360.7	360.7
7.5°	375.3	379.5	384.4	387.2	390.7	392.7	393.4	393.4
10°	400.4	406.7	412.3	416.5	420.7	422.7	424.8	424.8
12.5°	424.1	431.8	438.8	444.4	449.3	452.0	454.1	454.8
15°	445.8	455.5	462.5	469.5	475.1	478.6	480.6	482.0
17.5°	463.9	474.4	482.7	489.7	496.0	500.2	503.7	504.4
20°	477.9	489.0	498.8	506.5	513.4	517.6	521.1	521.8
22.5°	488.3	500.9	511.3	519.7	526.7	531.6	534.4	535.8
25°	495.3	507.9	519.7	528.8	536.5	541.3	543.4	545.5
27.5°	498.8	512.0	523.9	533.0	540.6	545.5	548.3	549.0
30°	498.8	511.3	523.2	532.3	539.2	544.1	546.9	548.3
32.5°	493.9	506.5	517.6	526.7	533.0	537.8	540.6	542.0
35°	486.2	498.1	509.2	516.9	523.9	527.4	530.9	531.6
37.5°	475.8	486.9	497.4	504.4	510.6	514.1	516.9	517.6
40°	463.2	473.7	482.7	489.0	494.6	498.1	500.2	501.6
42.5°	449.3	458.3	466.0	471.6	475.8	479.2	480.6	482.0
45°	433.9	441.6	448.6	453.4	456.9	459.0	461.1	461.8
47.5°	418.6	425.5	431.1	435.3	436.7	438.8	439.5	440.2
50°	403.2	408.8	413.7	415.8	417.9	419.3	419.3	420.0
52.5°	387.9	393.4	395.5	398.3	399.7	400.4	400.4	400.4
55°	373.2	377.4	379.5	380.9	381.6	383.0	383.0	383.0
57.5°	359.3	362.1	362.8	364.1	364.8	366.2	366.2	366.2
60°	343.9	346.7	347.4	348.1	348.8	350.2	350.9	350.9
62.5°	330.0	332.1	331.4	332.8	333.5	334.8	336.2	336.9
65°	314.6	316.0	316.0	316.7	318.8	319.5	320.9	321.6
67.5°	299.3	300.0	300.0	301.4	302.8	304.2	304.9	305.5
70°	281.8	283.2	282.5	283.9	285.3	286.7	288.1	288.1
72.5°	263.7	264.4	265.1	264.4	265.8	267.2	267.9	268.6
75°	242.8	244.2	244.2	242.8	243.5	243.5	244.2	244.2
77.5°	218.3	217.7	215.6	214.2	214.2	214.9	214.9	215.6
80°	190.4	189.0	187.7	186.3	186.3	187.0	187.0	188.4
82.5°	159.7	158.4	157.0	156.3	157.0	157.0	157.7	158.4
85°	123.5	121.4	123.5	122.1	123.5	123.5	123.5	124.9
87.5°	76.7	77.4	79.5	78.8	78.1	78.8	81.6	80.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)