

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: P188343

Luminaire Tested: **22SR-LD2-29-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188343
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-LD2-29-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: 2614.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

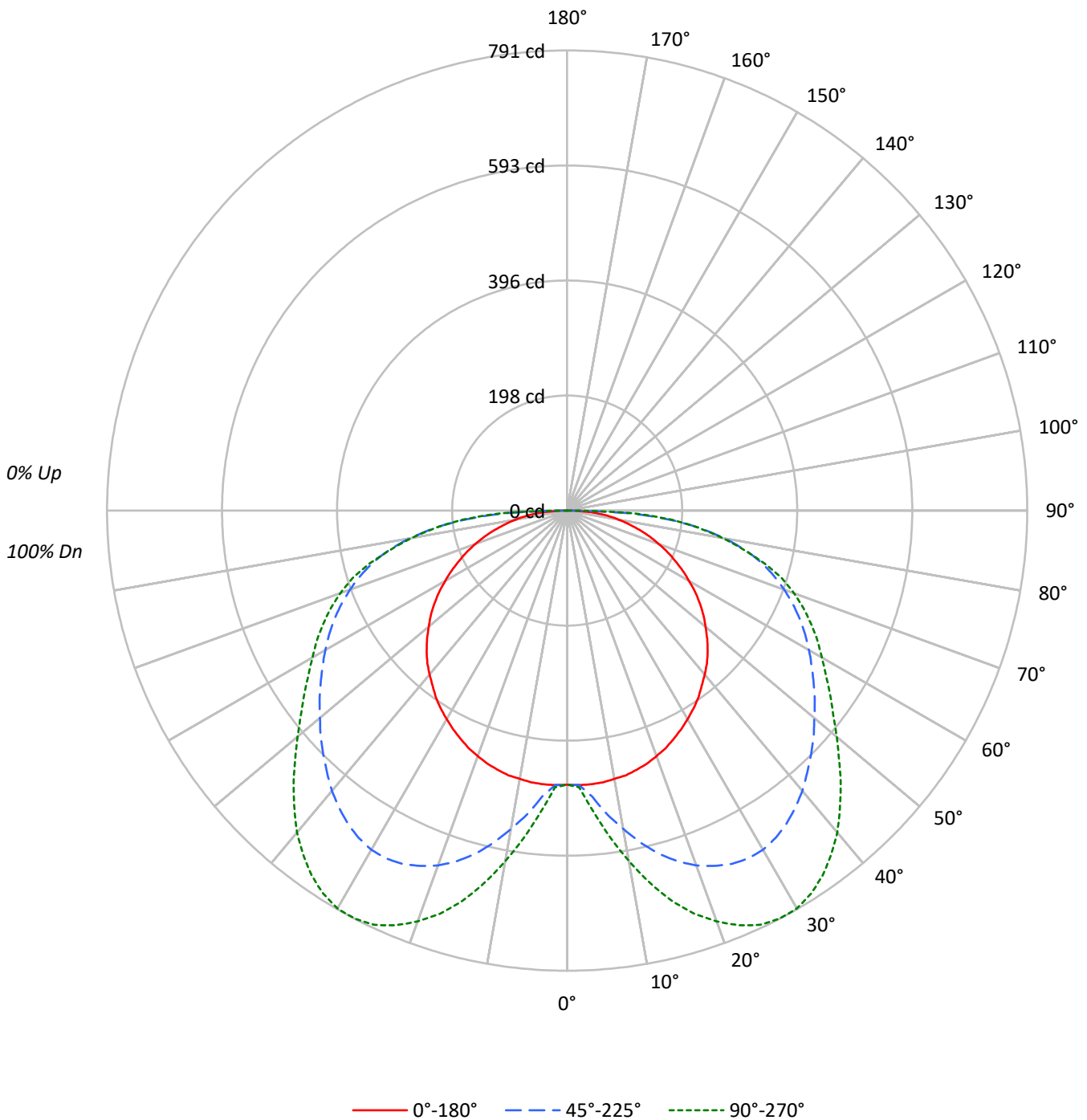
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1381	1381	1381
5°	1389	1451	1528
10°	1393	1653	1821
15°	1399	1853	2106
20°	1400	2024	2343
25°	1400	2166	2540
30°	1400	2277	2672
35°	1405	2350	2739
40°	1406	2405	2763
45°	1415	2456	2756
50°	1415	2528	2757
55°	1422	2643	2818
60°	1419	2814	2962
65°	1421	3058	3211
70°	1438	3400	3554
75°	1456	3913	3980
80°	1525	4628	4578
85°	1688	5910	6045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.9
10°-20°	168.8	6.5
20°-30°	296.5	11.3
30°-40°	390.3	14.9
40°-50°	429.3	16.4
50°-60°	425.4	16.3
60°-70°	391.5	15.0
70°-80°	313.9	12.0
80°-90°	149.3	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°	514.3	19.7
0°-40°	904.6	34.6
0°-60°	1759.3	67.3
0°-90°	2614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	472	474	493	513	519	45
15°	461	521	611	671	694	130
25°	433	541	670	755	786	200
35°	393	522	657	739	766	246
45°	342	475	593	650	665	263
55°	278	413	517	548	552	249
65°	205	345	441	456	463	203
75°	129	259	346	351	352	136
85°	50	122	176	177	180	52
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°	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2
2.5°	472.2	473.2	472.2	472.2	472.2	472.2	472.2	472.2	472.2	472.2	473.2
5°	472.2	472.2	472.2	472.2	472.2	475.2	478.2	482.3	488.3	493.3	499.3
7.5°	471.2	471.2	471.2	472.2	478.2	486.3	496.3	506.4	517.4	526.5	534.5
10°	468.2	468.2	469.2	476.2	487.3	502.3	516.4	530.5	542.5	555.6	568.7
12.5°	466.2	466.2	469.2	482.3	499.3	518.4	535.5	552.6	569.7	584.7	599.8
15°	461.2	461.2	468.2	487.3	510.4	531.5	552.6	572.7	592.8	610.9	627.9
17.5°	456.1	456.1	467.2	492.3	517.4	541.5	565.6	589.8	611.9	632.0	651.0
20°	449.1	450.1	466.2	494.3	521.4	549.6	576.7	601.8	626.9	649.0	670.1
22.5°	442.1	443.1	464.2	495.3	524.5	554.6	583.7	611.9	638.0	661.1	684.2
25°	433.0	436.0	460.2	493.3	525.5	556.6	587.7	616.9	645.0	670.1	693.2
27.5°	424.0	428.0	455.1	489.3	523.4	555.6	587.7	618.9	647.0	674.2	697.3
30°	413.9	419.0	449.1	484.3	519.4	552.6	585.7	616.9	646.0	673.1	696.3
32.5°	403.9	408.9	441.1	477.2	512.4	546.6	579.7	611.9	640.0	667.1	691.2
35°	392.8	399.9	433.0	469.2	505.4	539.5	572.7	603.8	632.0	657.1	680.2
37.5°	379.8	388.8	422.0	459.1	495.3	529.5	561.6	592.8	619.9	644.0	666.1
40°	367.7	377.8	411.9	448.1	484.3	518.4	549.6	579.7	605.8	628.9	650.0
42.5°	355.7	366.7	399.9	436.0	471.2	505.4	536.5	564.6	589.8	610.9	630.9
45°	341.6	353.7	386.8	423.0	458.1	491.3	521.4	548.6	573.7	592.8	610.9
47.5°	326.5	340.6	373.7	409.9	444.1	476.2	506.4	531.5	554.6	574.7	590.8
50°	310.5	326.5	359.7	395.8	429.0	461.2	490.3	515.4	536.5	554.6	569.7
52.5°	295.4	311.5	344.6	379.8	413.9	446.1	474.2	498.3	518.4	536.5	549.6
55°	278.3	295.4	329.5	363.7	397.9	429.0	457.1	481.2	500.3	517.4	529.5
57.5°	261.2	279.3	312.5	347.6	380.8	412.9	441.1	464.2	483.3	498.3	509.4
60°	242.1	262.2	295.4	330.5	364.7	395.8	424.0	447.1	465.2	480.2	489.3
62.5°	224.0	244.1	279.3	313.5	346.6	378.8	406.9	429.0	447.1	461.2	469.2
65°	205.0	226.1	260.2	295.4	328.5	360.7	387.8	410.9	428.0	441.1	449.1
67.5°	186.9	208.0	241.1	275.3	308.4	341.6	367.7	389.8	406.9	420.0	427.0
70°	167.8	188.9	222.0	254.2	288.3	319.5	346.6	368.7	384.8	396.9	403.9
72.5°	148.7	170.8	200.9	234.1	266.2	298.4	323.5	345.6	361.7	372.7	378.8
75°	128.6	150.7	180.8	210.0	243.1	274.3	299.4	320.5	335.6	345.6	350.6
77.5°	109.5	129.6	158.7	187.9	217.0	247.2	271.3	292.4	304.4	313.5	318.5
80°	90.4	108.5	134.6	161.8	187.9	216.0	238.1	257.2	269.3	274.3	277.3
82.5°	71.3	87.4	107.5	131.6	154.7	177.8	197.9	214.0	223.0	230.1	232.1
85°	50.2	60.3	76.4	93.4	112.5	131.6	149.7	161.8	170.8	175.8	176.8
87.5°	26.1	30.1	38.2	48.2	62.3	75.4	85.4	93.4	100.5	105.5	110.5
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°	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2
2.5°	473.2	473.2	475.2	475.2	476.2	476.2	475.2	476.2
5°	503.4	507.4	513.4	513.4	517.4	519.4	519.4	519.4
7.5°	540.5	546.6	553.6	557.6	562.6	565.6	566.6	566.6
10°	576.7	585.7	593.8	599.8	605.8	608.8	611.9	611.9
12.5°	610.9	621.9	632.0	640.0	647.0	651.0	654.1	655.1
15°	642.0	656.1	666.1	676.2	684.2	689.2	692.2	694.2
17.5°	668.1	683.2	695.2	705.3	714.3	720.4	725.4	726.4
20°	688.2	704.3	718.4	729.4	739.5	745.5	750.5	751.5
22.5°	703.3	721.4	736.4	748.5	758.5	765.6	769.6	771.6
25°	713.3	731.4	748.5	761.6	772.6	779.6	782.7	785.7
27.5°	718.4	737.4	754.5	767.6	778.6	785.7	789.7	790.7
30°	718.4	736.4	753.5	766.6	776.6	783.7	787.7	789.7
32.5°	711.3	729.4	745.5	758.5	767.6	774.6	778.6	780.6
35°	700.3	717.4	733.4	744.5	754.5	759.5	764.6	765.6
37.5°	685.2	701.3	716.3	726.4	735.4	740.5	744.5	745.5
40°	667.1	682.2	695.2	704.3	712.3	717.4	720.4	722.4
42.5°	647.0	660.1	671.1	679.2	685.2	690.2	692.2	694.2
45°	624.9	636.0	646.0	653.1	658.1	661.1	664.1	665.1
47.5°	602.8	612.9	620.9	626.9	628.9	632.0	633.0	634.0
50°	580.7	588.8	595.8	598.8	601.8	603.8	603.8	604.8
52.5°	558.6	566.6	569.7	573.7	575.7	576.7	576.7	576.7
55°	537.5	543.5	546.6	548.6	549.6	551.6	551.6	551.6
57.5°	517.4	521.4	522.4	524.5	525.5	527.5	527.5	527.5
60°	495.3	499.3	500.3	501.3	502.3	504.4	505.4	505.4
62.5°	475.2	478.2	477.2	479.2	480.2	482.3	484.3	485.3
65°	453.1	455.1	455.1	456.1	459.1	460.2	462.2	463.2
67.5°	431.0	432.0	432.0	434.0	436.0	438.0	439.1	440.1
70°	405.9	407.9	406.9	408.9	410.9	412.9	414.9	414.9
72.5°	379.8	380.8	381.8	380.8	382.8	384.8	385.8	386.8
75°	349.6	351.6	351.6	349.6	350.6	350.6	351.6	351.6
77.5°	314.5	313.5	310.5	308.4	308.4	309.4	309.4	310.5
80°	274.3	272.3	270.3	268.3	268.3	269.3	269.3	271.3
82.5°	230.1	228.1	226.1	225.1	226.1	226.1	227.1	228.1
85°	177.8	174.8	177.8	175.8	177.8	177.8	177.8	179.8
87.5°	110.5	111.5	114.5	113.5	112.5	113.5	117.5	115.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)