

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: P188558

Luminaire Tested: **24SR-LD2-29-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24637)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-29-C-UNV-L835-CD1-PL-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.98 / 1.87
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

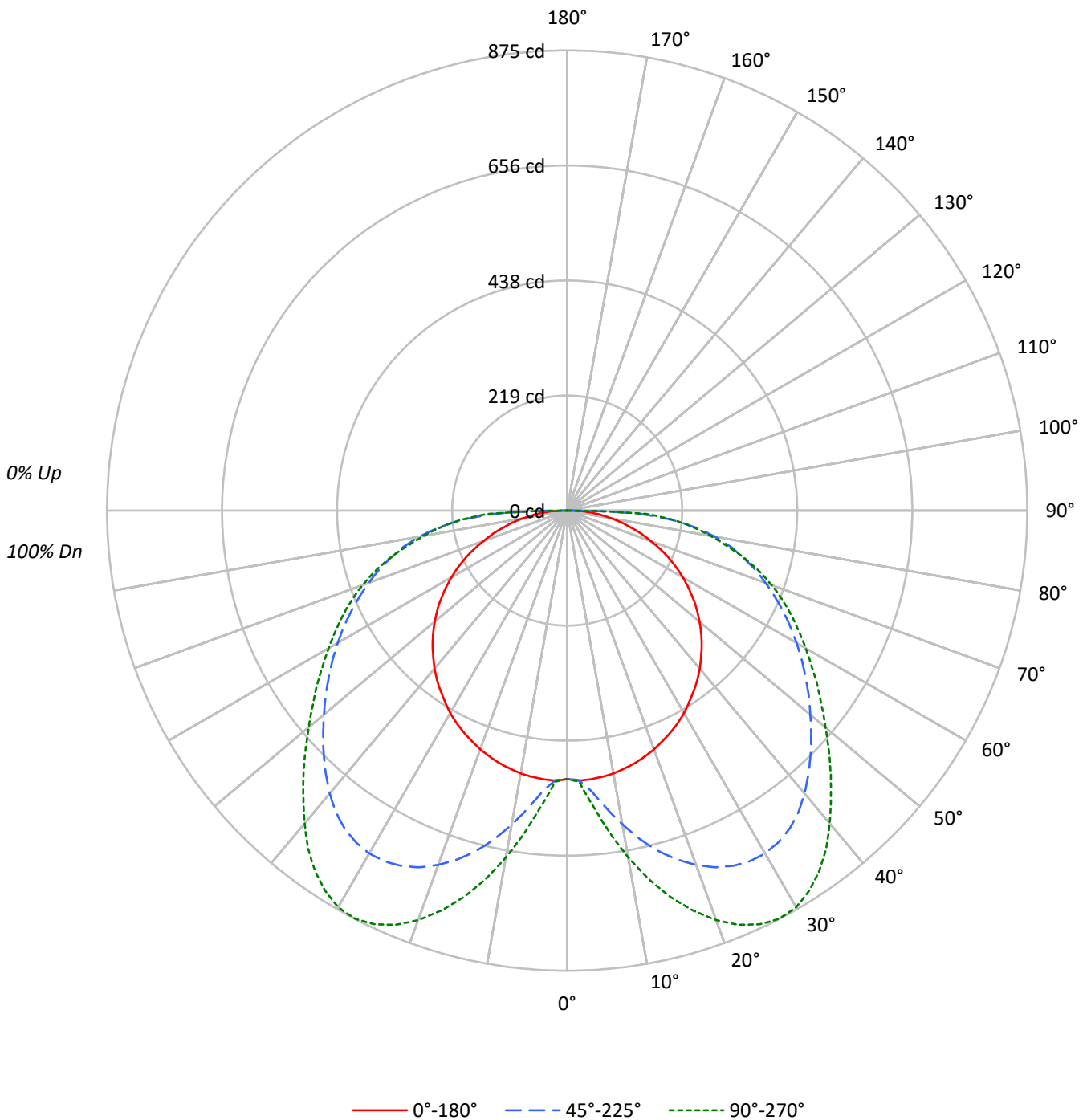
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	70	80	73	68	76	71	66	73	69	65	62
3	86	74	64	57	83	72	63	56	69	61	55	66	60	54	63	58	53	51
4	78	64	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45	42
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	59	45	36	30	43	35	29	42	35	29	40	34	29	27
8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	26	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21
10	49	35	26	21	48	34	26	21	33	26	21	32	25	21	31	25	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	687	687	687
5°	693	724	761
10°	694	828	915
15°	693	934	1060
20°	692	1027	1186
25°	691	1107	1289
30°	690	1170	1353
35°	688	1212	1373
40°	689	1234	1364
45°	689	1246	1349
50°	688	1263	1342
55°	687	1299	1363
60°	684	1356	1410
65°	679	1443	1498
70°	666	1579	1628
75°	657	1804	1816
80°	662	2211	2142
85°	722	3063	3120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.9
10°-20°	184.4	6.5
20°-30°	326.8	11.6
30°-40°	430.1	15.3
40°-50°	466.4	16.6
50°-60°	454.0	16.1
60°-70°	407.9	14.5
70°-80°	323.1	11.5
80°-90°	169.3	6.0
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°	564.3	20.0
0°-40°	994.3	35.3
0°-60°	1914.7	68.0
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	513	513	536	556	563	49
15°	497	562	670	738	761	140
25°	465	592	745	836	868	215
35°	419	577	738	813	836	263
45°	362	524	655	698	709	279
55°	293	455	554	573	581	262
65°	213	382	453	462	470	211
75°	126	287	347	347	349	134
85°	47	152	198	199	202	50
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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	514.2	513.5	512.8	512.0	511.3	510.5	510.5	510.5	511.3	512.8	515.0
5°	512.8	512.0	511.3	511.3	512.0	513.5	518.0	523.2	528.4	535.8	544.0
7.5°	510.5	509.8	509.8	511.3	517.2	526.1	536.5	547.7	558.8	570.7	581.9
10°	507.6	506.8	507.6	514.2	527.6	542.5	558.1	573.7	588.6	605.7	621.3
12.5°	502.4	502.4	506.1	519.4	538.8	558.8	578.9	599.7	619.0	639.8	657.7
15°	497.2	497.2	505.3	525.4	549.9	573.7	599.0	623.5	646.5	670.3	691.1
17.5°	490.5	490.5	504.6	529.9	558.1	587.1	616.1	643.6	669.6	695.6	717.9
20°	483.0	484.5	503.1	533.6	565.5	598.2	629.4	659.9	688.9	717.1	741.6
22.5°	474.1	477.1	500.9	535.1	571.5	605.7	639.8	672.5	703.0	734.2	758.7
25°	465.2	469.7	497.9	535.1	573.7	610.9	646.5	680.7	713.4	745.4	772.1
27.5°	455.5	461.5	493.4	532.8	574.4	612.3	649.5	685.2	719.4	752.0	779.5
30°	444.4	451.8	486.8	528.4	571.5	610.1	648.8	685.9	720.1	752.8	779.5
32.5°	431.8	441.4	478.6	521.7	565.5	604.9	643.6	680.7	715.6	747.6	772.9
35°	419.1	431.0	469.7	513.5	557.3	596.7	635.4	673.3	707.5	737.9	760.2
37.5°	406.5	419.1	458.5	502.4	546.2	585.6	625.0	661.4	694.1	722.3	742.4
40°	392.4	406.5	445.9	490.5	533.6	573.0	611.6	646.5	676.3	702.3	720.8
42.5°	376.8	392.4	432.5	477.1	519.4	558.1	595.2	627.9	656.2	679.2	694.8
45°	361.9	378.3	418.4	463.0	504.6	542.5	578.2	608.6	633.9	654.7	668.1
47.5°	345.6	362.6	404.3	447.4	488.2	525.4	559.6	587.1	611.6	629.4	641.3
50°	328.5	347.0	388.7	431.8	471.9	508.3	541.0	566.3	588.6	603.4	614.6
52.5°	311.4	330.7	372.3	415.4	455.5	490.5	521.7	546.2	565.5	578.9	588.6
55°	292.8	314.3	356.0	399.1	437.7	472.6	502.4	524.7	542.5	553.6	562.6
57.5°	273.5	296.5	339.6	382.7	421.4	454.8	483.0	503.8	519.4	529.1	535.8
60°	254.2	278.7	321.8	364.9	402.8	436.2	463.0	482.3	496.4	503.8	509.0
62.5°	234.1	260.1	303.9	347.0	385.7	416.9	442.2	460.0	472.6	478.6	483.8
65°	213.3	240.8	285.4	328.5	367.1	396.1	420.6	437.0	448.1	453.3	456.3
67.5°	191.7	220.7	266.0	309.1	346.3	374.5	397.6	413.9	422.8	427.3	429.5
70°	169.4	199.9	245.2	288.3	324.0	350.8	373.1	387.9	396.8	401.3	402.0
72.5°	148.6	178.4	224.4	266.0	300.2	326.2	347.0	362.6	371.6	375.3	375.3
75°	126.3	156.1	201.4	241.5	274.2	299.5	320.3	335.2	343.3	347.0	347.0
77.5°	107.0	134.5	176.9	215.5	246.0	270.5	290.6	306.2	315.1	318.8	318.8
80°	85.5	112.2	151.6	187.3	215.5	237.8	258.6	275.0	283.9	285.4	283.1
82.5°	66.1	90.7	124.1	156.1	182.1	202.9	223.7	237.1	243.7	245.2	244.5
85°	46.8	66.9	95.1	121.1	142.7	162.0	176.9	189.5	196.2	198.4	199.9
87.5°	27.5	38.6	56.5	76.5	92.9	105.5	114.4	125.6	132.3	136.7	141.2
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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	514.2	515.0	515.7	515.7	515.7	516.5	515.7	515.7
5°	546.9	551.4	555.1	557.3	559.6	563.3	562.6	563.3
7.5°	587.8	595.2	603.4	607.9	610.9	615.3	616.8	616.8
10°	630.2	640.6	650.2	656.9	661.4	668.1	668.8	669.6
12.5°	670.3	682.9	694.1	701.5	708.2	714.1	717.1	717.9
15°	704.5	720.1	732.7	742.4	749.1	755.8	759.5	761.0
17.5°	735.0	751.3	765.4	776.6	784.7	791.4	795.9	797.4
20°	758.7	776.6	792.2	804.1	813.7	821.2	827.1	828.6
22.5°	778.1	796.6	813.0	826.4	836.0	844.9	850.1	852.4
25°	792.2	812.2	829.3	842.0	852.4	860.5	865.7	868.0
27.5°	800.4	820.4	836.8	849.4	859.8	867.2	872.4	874.7
30°	800.4	819.7	836.0	847.9	857.6	865.0	868.7	871.0
32.5°	792.2	810.8	825.6	836.0	844.9	852.4	855.3	856.8
35°	778.8	795.2	808.5	817.4	824.9	831.6	834.5	836.0
37.5°	759.5	774.3	784.7	792.9	798.9	805.6	807.8	809.3
40°	735.0	749.1	756.5	763.9	769.1	775.1	776.6	776.6
42.5°	708.2	720.1	727.5	732.7	736.4	740.2	742.4	742.4
45°	680.0	690.4	695.6	700.0	703.7	706.7	708.9	708.9
47.5°	651.7	659.9	664.4	667.3	670.3	673.3	674.8	674.8
50°	623.5	629.4	633.1	635.4	638.4	640.6	642.1	641.3
52.5°	595.2	599.7	602.7	604.9	606.4	608.6	609.4	610.1
55°	567.0	570.0	572.2	573.7	576.7	578.9	579.6	581.1
57.5°	539.5	541.0	544.0	544.7	547.7	549.9	550.7	551.4
60°	511.3	512.8	515.0	516.5	520.2	521.7	522.4	523.9
62.5°	483.8	484.5	487.5	490.5	493.4	494.9	495.7	496.4
65°	456.3	458.5	460.7	463.0	465.9	468.2	468.9	470.4
67.5°	429.5	431.0	434.0	436.2	438.4	440.7	442.2	442.9
70°	402.0	403.5	405.8	407.2	409.5	411.7	413.9	413.9
72.5°	375.3	375.3	376.8	378.3	380.5	382.0	382.7	382.7
75°	346.3	345.6	347.0	347.8	347.8	347.8	348.5	349.3
77.5°	315.1	312.1	310.6	310.6	311.4	309.9	310.6	311.4
80°	279.4	276.4	275.7	275.7	276.4	275.7	276.4	276.4
82.5°	241.5	241.5	239.3	240.0	240.8	239.3	240.8	242.3
85°	197.7	198.4	197.7	199.9	199.9	199.9	200.6	202.1
87.5°	141.9	146.4	144.9	147.9	147.1	147.9	148.6	150.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)