

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: P188519

Luminaire Tested: **24SR-LD2-29-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24780)
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-L840-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1839.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

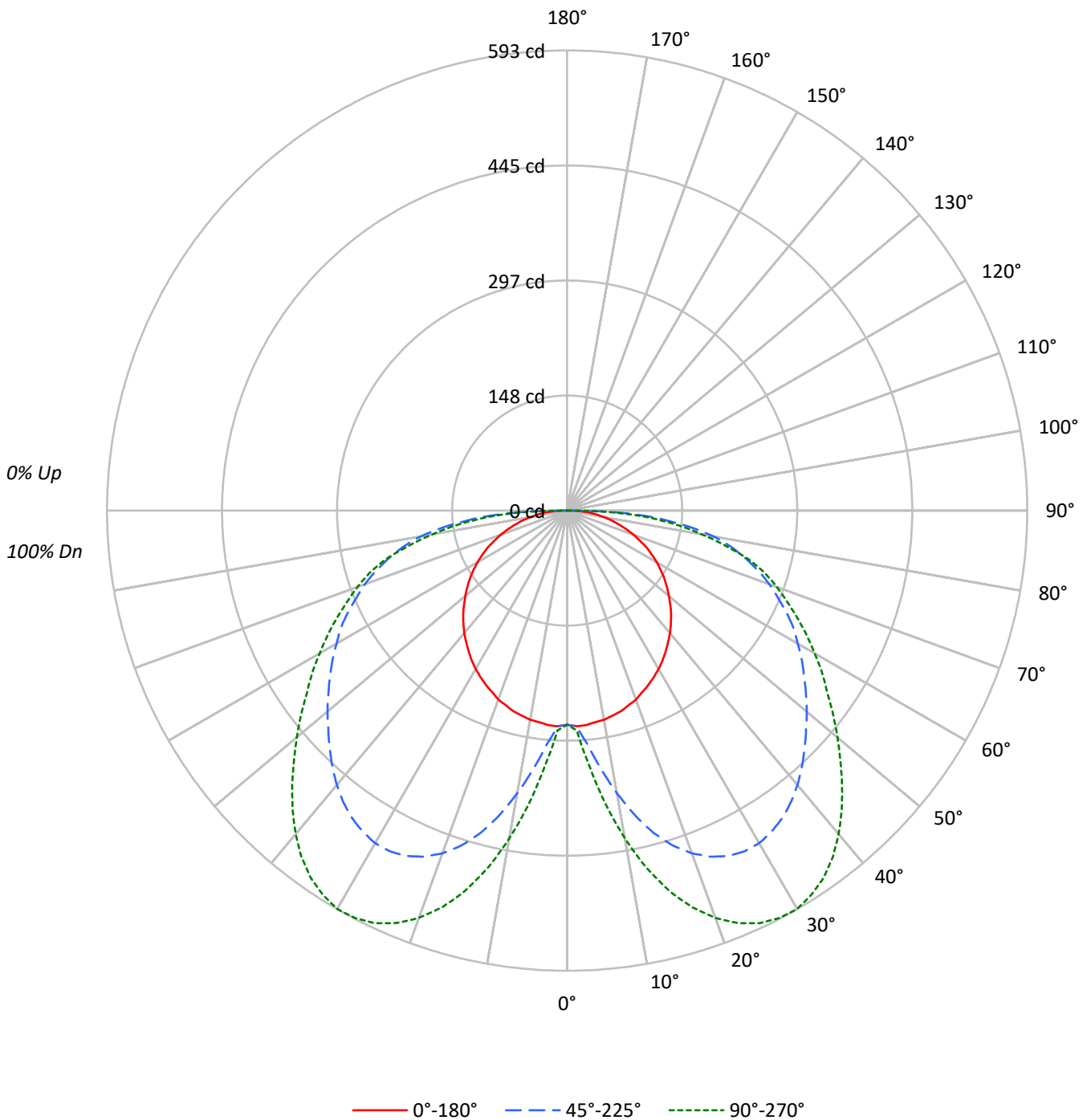
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	106	100	95	90	103	98	93	88	93	89	86	89	86	83	86	83	80
2	95	85	77	70	92	83	76	69	80	73	68	76	71	66	73	69	65
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	33	28
8	56	41	32	26	54	41	32	26	39	31	25	38	31	25	37	30	25
9	52	38	29	23	50	37	29	23	36	28	23	35	28	23	34	27	22
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	371	371	371
5°	375	408	447
10°	374	505	586
15°	373	599	706
20°	371	673	800
25°	368	729	871
30°	366	769	921
35°	363	794	947
40°	362	811	956
45°	361	824	953
50°	359	844	952
55°	359	875	960
60°	359	924	991
65°	359	994	1042
70°	358	1091	1130
75°	359	1237	1257
80°	370	1486	1368
85°	432	1849	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	1.7
10°-20°	116.1	6.3
20°-30°	211.2	11.5
30°-40°	280.2	15.2
40°-50°	306.9	16.7
50°-60°	301.7	16.4
60°-70°	273.7	14.9
70°-80°	216.9	11.8
80°-90°	101.7	5.5
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°	358.0	19.5
0°-40°	638.2	34.7
0°-60°	1246.8	67.8
0°-90°	1839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	276	276	276	276	276	
5°	277	279	302	324	331	26
15°	268	332	430	488	507	75
25°	248	366	491	561	587	114
35°	221	358	484	552	577	139
45°	190	322	433	485	501	146
55°	153	283	373	402	409	137
65°	113	244	312	321	327	111
75°	69	189	238	238	242	73
85°	28	102	120	108	108	29
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°	275.9	275.9	275.9	275.9	275.9	275.9	275.9	275.9	275.9	275.9	275.9
2.5°	278.2	277.4	277.4	277.4	276.6	276.6	276.6	277.4	277.4	278.2	279.7
5°	277.4	276.6	276.6	276.6	278.2	280.4	285.0	290.3	296.4	302.4	309.2
7.5°	275.1	275.1	275.1	277.4	284.2	293.3	304.7	316.1	325.9	336.5	346.4
10°	273.6	273.6	275.1	282.7	296.4	311.5	326.7	341.8	355.5	369.9	383.5
12.5°	270.6	270.6	275.1	289.5	308.5	328.2	347.1	366.1	384.3	401.7	416.9
15°	267.6	267.6	277.4	297.9	320.6	344.1	366.8	388.8	410.0	429.8	447.2
17.5°	263.0	263.8	278.9	303.9	331.2	357.7	382.8	407.8	430.5	452.5	470.7
20°	259.2	260.7	280.4	309.2	339.6	369.1	397.2	422.9	447.2	469.9	489.6
22.5°	253.2	256.2	281.2	313.0	345.6	377.5	406.3	433.5	459.3	482.8	502.5
25°	247.8	251.6	280.4	314.5	350.2	382.8	412.3	440.4	466.9	491.1	511.6
27.5°	241.8	247.8	279.7	315.3	351.7	385.0	415.3	444.2	470.7	494.9	516.2
30°	235.7	243.3	277.4	314.5	350.9	384.3	414.6	444.2	470.7	494.9	515.4
32.5°	228.9	237.2	272.9	310.8	347.9	380.5	410.8	439.6	466.9	490.4	510.9
35°	221.3	231.2	267.6	305.4	341.8	374.4	404.0	432.8	459.3	483.6	503.3
37.5°	213.7	225.1	261.5	299.4	335.0	366.8	395.6	424.4	450.2	473.7	492.7
40°	206.2	218.3	254.7	291.8	326.7	357.7	386.5	414.6	438.8	461.6	479.0
42.5°	197.8	211.5	247.1	283.5	316.8	347.1	375.9	403.2	426.7	447.9	464.6
45°	189.5	203.1	238.8	274.4	307.7	336.5	364.6	391.1	413.1	432.8	448.7
47.5°	180.4	195.5	231.2	265.3	297.1	326.7	354.0	378.2	400.2	417.6	432.8
50°	171.3	187.2	222.1	256.2	287.3	316.1	342.6	366.1	386.5	403.2	416.1
52.5°	162.2	178.9	213.7	247.1	278.2	306.2	332.0	354.0	372.9	388.1	400.9
55°	153.1	170.5	205.4	238.0	269.1	296.4	321.4	341.8	360.0	372.9	383.5
57.5°	143.3	162.2	197.1	229.7	260.0	287.3	310.8	330.5	347.1	358.5	367.6
60°	133.4	153.1	188.0	221.3	250.9	277.4	300.1	319.1	333.5	343.3	351.7
62.5°	122.8	144.0	179.6	212.2	241.8	267.6	288.8	305.4	319.8	328.9	333.5
65°	112.9	134.9	170.5	203.1	231.9	256.2	276.6	292.6	304.7	312.3	316.1
67.5°	101.6	125.1	160.7	193.3	220.6	244.1	263.0	278.2	288.8	294.1	297.1
70°	91.0	115.2	150.1	181.9	207.7	230.4	248.6	263.0	272.1	277.4	278.2
72.5°	79.6	104.6	139.5	169.8	194.8	216.0	233.4	246.3	253.9	258.5	259.2
75°	69.0	93.2	126.6	155.4	178.9	198.6	215.3	227.4	235.0	238.0	238.0
77.5°	58.4	81.1	112.9	140.2	162.2	180.4	195.5	207.7	213.7	216.8	216.8
80°	47.8	69.7	98.5	123.5	143.3	159.9	175.1	185.7	191.8	191.8	187.2
82.5°	37.9	56.8	81.9	104.6	121.3	136.4	150.8	157.7	159.2	157.7	153.9
85°	28.0	43.2	63.7	81.1	96.3	106.9	116.0	120.5	121.3	119.8	116.7
87.5°	15.9	25.0	36.4	47.8	57.6	62.9	70.5	72.0	72.0	74.3	70.5
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°	275.9	275.9	275.9	275.9	275.9	275.9	275.9	275.9
2.5°	280.4	281.2	281.2	283.5	283.5	284.2	283.5	283.5
5°	313.8	316.8	321.4	325.9	327.4	330.5	329.7	331.2
7.5°	354.0	360.0	366.8	372.9	375.9	379.0	379.7	382.0
10°	394.1	401.7	410.0	418.4	422.9	425.2	428.2	429.0
12.5°	429.0	440.4	448.7	457.8	463.9	466.9	469.9	471.4
15°	460.8	472.2	482.8	492.7	498.7	503.3	506.3	507.1
17.5°	485.1	498.0	509.3	519.9	526.0	531.3	534.3	535.9
20°	504.0	518.4	529.8	540.4	547.2	553.3	557.8	558.6
22.5°	517.7	532.1	545.0	555.6	563.9	570.0	573.8	575.3
25°	527.5	542.7	555.6	566.2	574.5	581.3	585.1	586.6
27.5°	532.1	548.0	561.6	571.5	579.8	586.6	591.2	591.9
30°	532.8	548.0	561.6	572.2	580.6	587.4	591.2	592.7
32.5°	527.5	543.4	557.1	566.9	575.3	582.1	585.9	586.6
35°	519.9	534.3	547.2	557.1	565.4	571.5	575.3	576.8
37.5°	508.6	522.2	534.3	543.4	551.0	557.1	560.9	562.4
40°	494.9	507.8	519.2	527.5	534.3	539.7	542.7	544.2
42.5°	479.0	491.1	501.8	508.6	515.4	519.9	522.2	523.7
45°	462.3	473.7	482.0	488.1	494.2	498.0	500.2	501.0
47.5°	444.9	454.8	461.6	466.9	471.4	475.2	477.5	477.5
50°	427.5	435.8	441.1	446.4	450.2	452.5	454.0	454.8
52.5°	410.0	416.9	420.7	425.2	428.2	430.5	432.0	432.0
55°	391.9	397.2	400.2	404.0	407.0	408.5	410.0	409.3
57.5°	374.4	378.2	380.5	383.5	385.8	387.3	388.8	389.6
60°	356.2	359.3	360.0	363.1	365.3	366.8	367.6	368.4
62.5°	337.3	339.6	341.1	342.6	344.9	346.4	347.1	347.9
65°	318.3	319.8	319.8	322.9	325.2	325.9	326.7	327.4
67.5°	298.6	299.4	300.1	302.4	304.7	305.4	307.0	307.0
70°	278.9	278.9	279.7	282.0	284.2	285.0	286.5	287.3
72.5°	258.5	259.2	259.2	261.5	263.8	265.3	266.0	266.8
75°	237.2	237.2	238.0	238.8	239.5	240.3	240.3	241.8
77.5°	214.5	211.5	209.9	208.4	209.2	209.2	208.4	209.2
80°	182.7	178.9	176.6	175.8	176.6	175.8	175.8	176.6
82.5°	150.1	145.5	144.0	143.3	143.3	143.3	142.5	144.0
85°	112.9	109.9	108.4	106.9	107.6	107.6	106.9	107.6
87.5°	68.2	66.7	65.2	63.7	64.4	63.7	62.9	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)