

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: P188518

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188518
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-L835-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1803.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

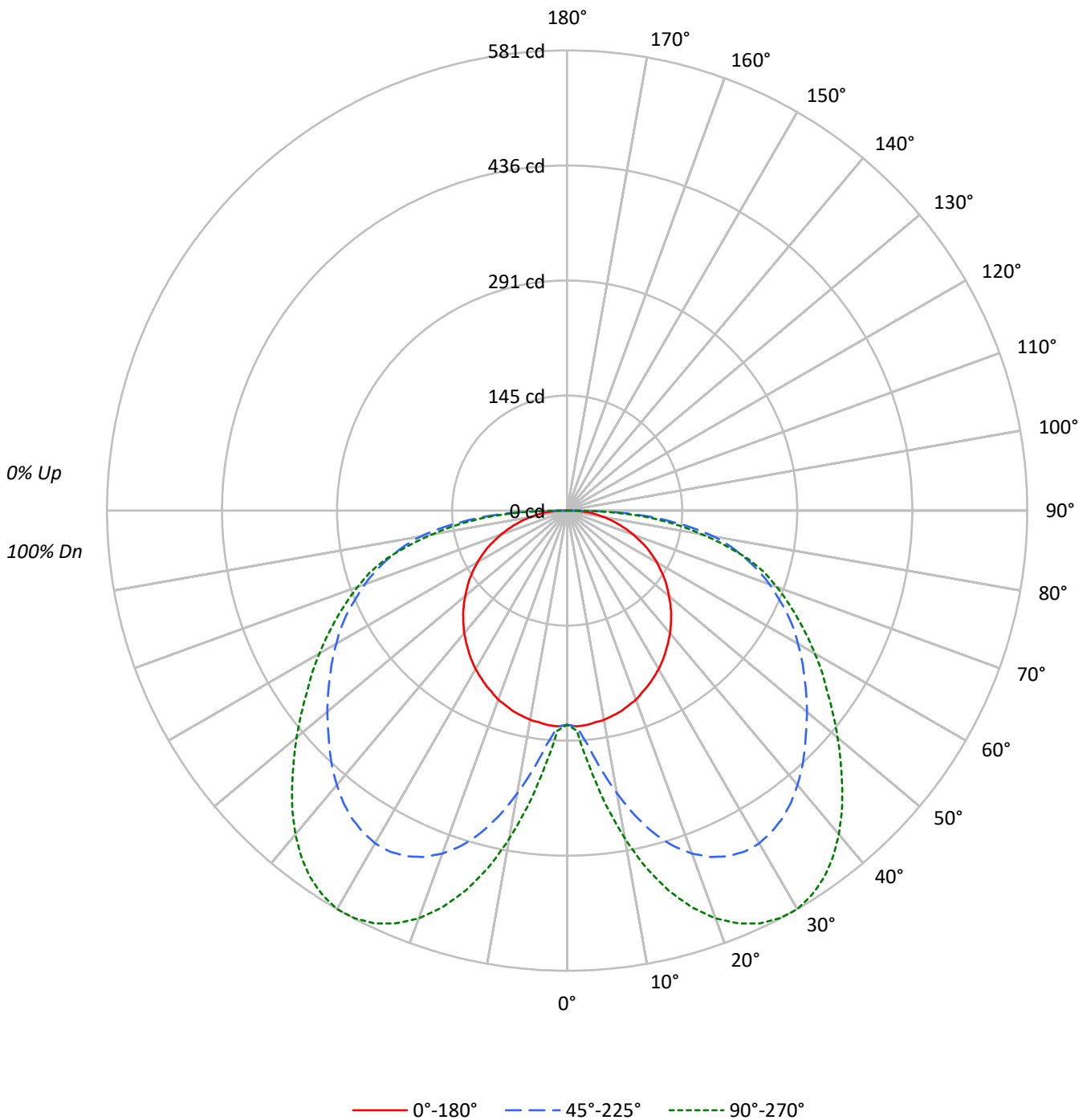
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	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	33	28	26
8	56	41	32	26	54	41	32	26	39	31	25	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	364	364	364
5°	367	400	439
10°	367	495	575
15°	365	587	692
20°	364	660	784
25°	361	715	854
30°	359	754	903
35°	356	779	929
40°	355	795	937
45°	354	807	935
50°	351	827	933
55°	352	858	941
60°	352	906	972
65°	352	975	1022
70°	351	1070	1108
75°	351	1213	1232
80°	363	1457	1341
85°	425	1812	1629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	1.7
10°-20°	113.8	6.3
20°-30°	207.1	11.5
30°-40°	274.7	15.2
40°-50°	300.9	16.7
50°-60°	295.8	16.4
60°-70°	268.3	14.9
70°-80°	212.6	11.8
80°-90°	99.7	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°	351.0	19.5
0°-40°	625.7	34.7
0°-60°	1222.4	67.8
0°-90°	1803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	272	274	296	317	325	26
15°	262	326	421	478	497	74
25°	243	359	482	550	575	112
35°	217	351	474	541	566	136
45°	186	316	424	476	491	143
55°	150	277	366	394	401	134
65°	111	239	306	315	321	109
75°	68	185	233	234	237	71
85°	28	100	117	106	106	28
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°	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5
2.5°	272.7	272.0	272.0	272.0	271.2	271.2	271.2	272.0	272.0	272.7	274.2
5°	272.0	271.2	271.2	271.2	272.7	274.9	279.4	284.6	290.6	296.5	303.2
7.5°	269.7	269.7	269.7	272.0	278.7	287.6	298.7	309.9	319.5	329.9	339.6
10°	268.3	268.3	269.7	277.2	290.6	305.4	320.3	335.1	348.5	362.6	376.0
12.5°	265.3	265.3	269.7	283.9	302.4	321.8	340.3	358.9	376.8	393.8	408.7
15°	262.3	262.3	272.0	292.0	314.3	337.4	359.7	381.2	402.0	421.3	438.4
17.5°	257.9	258.6	273.5	298.0	324.7	350.7	375.3	399.8	422.1	443.6	461.5
20°	254.1	255.6	274.9	303.2	332.9	361.9	389.4	414.7	438.4	460.7	480.0
22.5°	248.2	251.2	275.7	306.9	338.9	370.1	398.3	425.1	450.3	473.4	492.7
25°	243.0	246.7	274.9	308.4	343.3	375.3	404.2	431.7	457.7	481.5	501.6
27.5°	237.0	243.0	274.2	309.1	344.8	377.5	407.2	435.5	461.5	485.2	506.1
30°	231.1	238.5	272.0	308.4	344.1	376.8	406.5	435.5	461.5	485.2	505.3
32.5°	224.4	232.6	267.5	304.7	341.1	373.0	402.8	431.0	457.7	480.8	500.8
35°	217.0	226.6	262.3	299.5	335.1	367.1	396.1	424.3	450.3	474.1	493.4
37.5°	209.6	220.7	256.4	293.5	328.5	359.7	387.9	416.1	441.4	464.4	483.0
40°	202.1	214.0	249.7	286.1	320.3	350.7	379.0	406.5	430.3	452.5	469.6
42.5°	193.9	207.3	242.3	277.9	310.6	340.3	368.6	395.3	418.4	439.2	455.5
45°	185.8	199.2	234.1	269.0	301.7	329.9	357.4	383.4	405.0	424.3	439.9
47.5°	176.9	191.7	226.6	260.1	291.3	320.3	347.0	370.8	392.4	409.4	424.3
50°	167.9	183.5	217.7	251.2	281.6	309.9	335.9	358.9	379.0	395.3	408.0
52.5°	159.0	175.4	209.6	242.3	272.7	300.2	325.5	347.0	365.6	380.5	393.1
55°	150.1	167.2	201.4	233.3	263.8	290.6	315.1	335.1	353.0	365.6	376.0
57.5°	140.4	159.0	193.2	225.2	254.9	281.6	304.7	324.0	340.3	351.5	360.4
60°	130.8	150.1	184.3	217.0	246.0	272.0	294.3	312.8	327.0	336.6	344.8
62.5°	120.4	141.2	176.1	208.1	237.0	262.3	283.1	299.5	313.6	322.5	327.0
65°	110.7	132.3	167.2	199.2	227.4	251.2	271.2	286.8	298.7	306.2	309.9
67.5°	99.6	122.6	157.5	189.5	216.2	239.3	257.9	272.7	283.1	288.3	291.3
70°	89.2	113.0	147.1	178.3	203.6	225.9	243.7	257.9	266.8	272.0	272.7
72.5°	78.0	102.5	136.7	166.5	191.0	211.8	228.9	241.5	248.9	253.4	254.1
75°	67.6	91.4	124.1	152.3	175.4	194.7	211.0	222.9	230.4	233.3	233.3
77.5°	57.2	79.5	110.7	137.5	159.0	176.9	191.7	203.6	209.6	212.5	212.5
80°	46.8	68.4	96.6	121.1	140.4	156.8	171.7	182.1	188.0	188.0	183.5
82.5°	37.2	55.7	80.3	102.5	118.9	133.8	147.9	154.6	156.1	154.6	150.8
85°	27.5	42.4	62.4	79.5	94.4	104.8	113.7	118.2	118.9	117.4	114.4
87.5°	15.6	24.5	35.7	46.8	56.5	61.7	69.1	70.6	70.6	72.8	69.1
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°	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5
2.5°	274.9	275.7	275.7	277.9	277.9	278.7	277.9	277.9
5°	307.6	310.6	315.1	319.5	321.0	324.0	323.2	324.7
7.5°	347.0	353.0	359.7	365.6	368.6	371.6	372.3	374.5
10°	386.4	393.8	402.0	410.2	414.7	416.9	419.9	420.6
12.5°	420.6	431.7	439.9	448.8	454.8	457.7	460.7	462.2
15°	451.8	463.0	473.4	483.0	489.0	493.4	496.4	497.1
17.5°	475.6	488.2	499.4	509.8	515.7	520.9	523.9	525.4
20°	494.2	508.3	519.4	529.8	536.5	542.5	546.9	547.7
22.5°	507.5	521.7	534.3	544.7	552.9	558.8	562.5	564.0
25°	517.2	532.1	544.7	555.1	563.3	570.0	573.7	575.2
27.5°	521.7	537.3	550.6	560.3	568.5	575.2	579.6	580.4
30°	522.4	537.3	550.6	561.0	569.2	575.9	579.6	581.1
32.5°	517.2	532.8	546.2	555.8	564.0	570.7	574.4	575.2
35°	509.8	523.9	536.5	546.2	554.4	560.3	564.0	565.5
37.5°	498.6	512.0	523.9	532.8	540.2	546.2	549.9	551.4
40°	485.2	497.9	509.0	517.2	523.9	529.1	532.1	533.5
42.5°	469.6	481.5	491.9	498.6	505.3	509.8	512.0	513.5
45°	453.3	464.4	472.6	478.6	484.5	488.2	490.4	491.2
47.5°	436.2	445.9	452.5	457.7	462.2	465.9	468.2	468.2
50°	419.1	427.3	432.5	437.7	441.4	443.6	445.1	445.9
52.5°	402.0	408.7	412.4	416.9	419.9	422.1	423.6	423.6
55°	384.2	389.4	392.4	396.1	399.0	400.5	402.0	401.3
57.5°	367.1	370.8	373.0	376.0	378.2	379.7	381.2	382.0
60°	349.3	352.2	353.0	355.9	358.2	359.7	360.4	361.1
62.5°	330.7	332.9	334.4	335.9	338.1	339.6	340.3	341.1
65°	312.1	313.6	313.6	316.6	318.8	319.5	320.3	321.0
67.5°	292.8	293.5	294.3	296.5	298.7	299.5	301.0	301.0
70°	273.5	273.5	274.2	276.4	278.7	279.4	280.9	281.6
72.5°	253.4	254.1	254.1	256.4	258.6	260.1	260.8	261.6
75°	232.6	232.6	233.3	234.1	234.8	235.6	235.6	237.0
77.5°	210.3	207.3	205.8	204.4	205.1	205.1	204.4	205.1
80°	179.1	175.4	173.1	172.4	173.1	172.4	172.4	173.1
82.5°	147.1	142.7	141.2	140.4	140.4	140.4	139.7	141.2
85°	110.7	107.7	106.3	104.8	105.5	105.5	104.8	105.5
87.5°	66.9	65.4	63.9	62.4	63.2	62.4	61.7	63.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)