

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: P188319

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)
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-PG-U
Description: METALUX 2X2 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: 1735.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

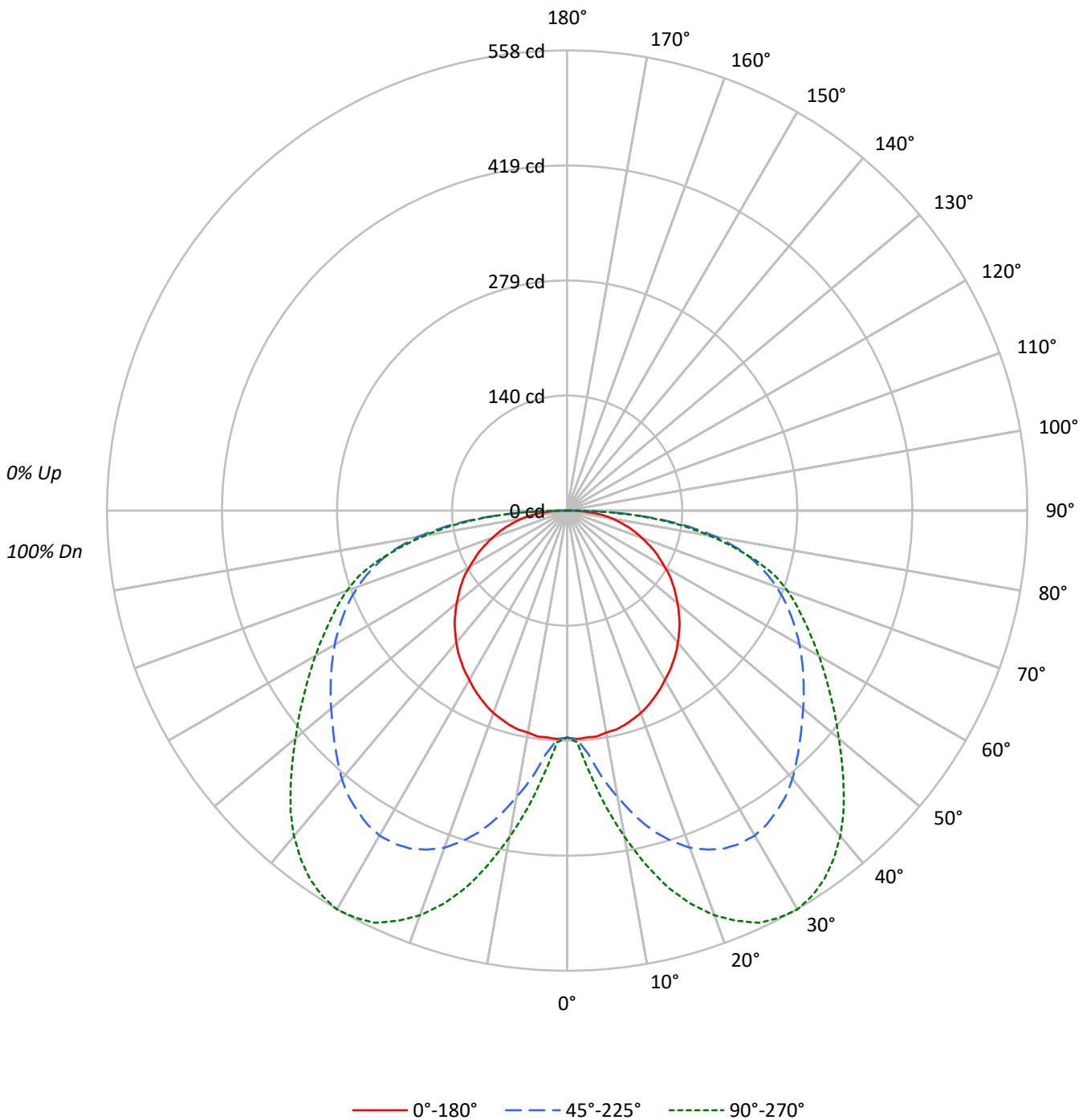
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	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	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	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	22	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°	806	806	806
5°	812	871	942
10°	813	1049	1195
15°	817	1219	1435
20°	814	1356	1629
25°	809	1461	1783
30°	802	1539	1890
35°	801	1588	1947
40°	799	1625	1971
45°	799	1653	1965
50°	797	1703	1960
55°	800	1786	1991
60°	800	1907	2066
65°	815	2075	2201
70°	826	2315	2436
75°	864	2649	2707
80°	931	3101	2966
85°	1046	3614	3412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	1.7
10°-20°	109.8	6.3
20°-30°	198.1	11.4
30°-40°	262.4	15.1
40°-50°	288.0	16.6
50°-60°	284.8	16.4
60°-70°	261.6	15.1
70°-80°	209.2	12.1
80°-90°	91.1	5.3
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°	337.8	19.5
0°-40°	600.2	34.6
0°-60°	1173.1	67.6
0°-90°	1735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	275	275	275	275	275	
5°	276	278	296	314	320	26
15°	269	322	402	452	473	76
25°	250	344	452	525	552	115
35°	224	331	444	518	544	140
45°	193	299	399	457	474	149
55°	157	261	350	383	390	140
65°	118	220	299	314	317	116
75°	76	168	234	238	239	80
85°	31	76	108	101	102	32
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°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2
2.5°	277.2	277.2	276.2	277.2	276.2	277.2	276.2	276.2	277.2	277.2	278.2
5°	276.2	276.2	276.2	276.2	277.2	279.2	282.3	286.3	291.3	296.3	301.3
7.5°	276.2	276.2	276.2	277.2	282.3	290.3	299.3	308.4	318.4	326.5	333.5
10°	273.2	274.2	274.2	280.3	291.3	304.4	318.4	329.5	341.5	352.6	362.6
12.5°	272.2	273.2	275.2	286.3	302.4	320.4	335.5	350.6	365.6	378.7	390.7
15°	269.2	269.2	276.2	292.3	312.4	331.5	350.6	368.6	385.7	401.8	415.9
17.5°	265.2	265.2	276.2	297.3	319.4	341.5	362.6	382.7	402.8	419.9	436.0
20°	261.2	262.2	276.2	301.3	325.5	350.6	372.7	394.8	415.9	434.9	453.0
22.5°	256.1	257.2	276.2	303.4	329.5	355.6	379.7	402.8	424.9	445.0	464.1
25°	250.1	253.1	274.2	302.4	330.5	357.6	382.7	407.8	431.9	452.0	472.1
27.5°	244.1	248.1	271.2	300.3	329.5	357.6	383.7	409.8	432.9	455.0	475.1
30°	237.1	242.1	268.2	298.3	327.5	355.6	382.7	408.8	432.9	455.0	475.1
32.5°	231.0	237.1	264.2	294.3	323.4	351.6	378.7	404.8	428.9	451.0	471.1
35°	224.0	230.0	258.2	288.3	317.4	345.5	372.7	397.8	422.9	444.0	464.1
37.5°	217.0	224.0	252.1	282.3	311.4	339.5	365.6	390.7	413.9	436.0	455.0
40°	208.9	217.0	245.1	275.2	303.4	330.5	356.6	380.7	403.8	424.9	443.0
42.5°	200.9	209.9	237.1	267.2	295.3	322.4	347.6	370.7	392.8	411.8	428.9
45°	192.9	202.9	230.0	258.2	286.3	312.4	336.5	359.6	379.7	398.8	414.9
47.5°	183.8	194.9	222.0	250.1	277.2	302.4	326.5	348.6	368.6	385.7	400.8
50°	174.8	186.8	214.0	241.1	267.2	293.3	316.4	337.5	356.6	373.7	387.7
52.5°	165.7	178.8	204.9	232.0	258.2	283.3	306.4	326.5	345.5	361.6	373.7
55°	156.7	169.8	196.9	223.0	249.1	273.2	296.3	316.4	334.5	349.6	360.6
57.5°	147.7	161.7	187.8	213.0	239.1	264.2	286.3	306.4	323.4	337.5	348.6
60°	136.6	152.7	177.8	203.9	229.0	254.1	276.2	295.3	312.4	325.5	335.5
62.5°	126.6	143.6	168.8	193.9	219.0	243.1	265.2	284.3	300.3	312.4	321.4
65°	117.5	133.6	158.7	182.8	207.9	233.0	254.1	273.2	288.3	299.3	307.4
67.5°	106.5	123.6	147.7	171.8	196.9	221.0	242.1	260.2	275.2	285.3	292.3
70°	96.4	113.5	136.6	160.7	184.8	207.9	229.0	247.1	260.2	270.2	275.2
72.5°	86.4	103.5	125.6	148.7	171.8	194.9	215.0	231.0	244.1	253.1	257.2
75°	76.3	92.4	113.5	135.6	156.7	178.8	198.9	215.0	226.0	234.0	237.1
77.5°	65.3	81.4	100.4	120.5	140.6	161.7	179.8	194.9	205.9	211.9	215.0
80°	55.2	68.3	85.4	104.5	122.5	141.6	157.7	170.8	179.8	183.8	182.8
82.5°	44.2	54.2	68.3	84.4	99.4	115.5	129.6	140.6	146.7	148.7	148.7
85°	31.1	37.2	47.2	58.3	70.3	82.4	93.4	101.5	106.5	107.5	107.5
87.5°	16.1	18.1	22.1	28.1	34.2	41.2	49.2	54.2	56.3	57.3	57.3
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°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2
2.5°	278.2	279.2	280.3	280.3	280.3	281.3	281.3	281.3
5°	305.4	310.4	313.4	315.4	317.4	319.4	321.4	320.4
7.5°	339.5	345.5	350.6	354.6	357.6	360.6	362.6	362.6
10°	370.7	378.7	385.7	391.8	396.8	398.8	401.8	401.8
12.5°	401.8	410.8	418.9	426.9	431.9	436.0	439.0	439.0
15°	427.9	439.0	448.0	457.0	464.1	469.1	471.1	473.1
17.5°	450.0	462.1	473.1	483.2	490.2	495.2	498.2	500.2
20°	467.1	481.2	493.2	503.3	512.3	517.3	520.3	522.3
22.5°	480.1	495.2	508.3	519.3	527.4	533.4	537.4	538.4
25°	489.2	505.3	519.3	530.4	539.4	545.4	549.5	551.5
27.5°	493.2	509.3	524.3	536.4	545.4	552.5	555.5	556.5
30°	494.2	510.3	525.4	537.4	547.5	553.5	556.5	558.5
32.5°	490.2	506.3	521.3	533.4	542.4	548.5	552.5	553.5
35°	482.2	498.2	512.3	524.3	533.4	539.4	543.4	544.4
37.5°	472.1	487.2	501.2	512.3	521.3	527.4	530.4	531.4
40°	459.1	474.1	486.2	497.2	505.3	510.3	514.3	515.3
42.5°	445.0	459.1	471.1	480.1	487.2	493.2	495.2	496.2
45°	428.9	442.0	453.0	461.1	467.1	472.1	474.1	474.1
47.5°	413.9	425.9	434.9	442.0	446.0	450.0	451.0	452.0
50°	398.8	408.8	416.9	421.9	425.9	428.9	429.9	429.9
52.5°	384.7	392.8	398.8	403.8	405.8	408.8	409.8	409.8
55°	370.7	376.7	381.7	384.7	386.7	388.7	388.7	389.7
57.5°	356.6	361.6	364.6	366.6	368.6	369.7	370.7	370.7
60°	341.5	345.5	347.6	348.6	349.6	351.6	351.6	352.6
62.5°	326.5	329.5	330.5	331.5	332.5	333.5	334.5	334.5
65°	310.4	312.4	313.4	314.4	315.4	316.4	318.4	317.4
67.5°	294.3	295.3	296.3	297.3	298.3	300.3	301.3	301.3
70°	277.2	277.2	278.2	279.2	280.3	282.3	283.3	284.3
72.5°	259.2	258.2	259.2	260.2	262.2	264.2	265.2	265.2
75°	238.1	238.1	238.1	238.1	238.1	239.1	239.1	239.1
77.5°	214.0	208.9	207.9	206.9	206.9	206.9	206.9	207.9
80°	180.8	176.8	175.8	174.8	175.8	175.8	175.8	175.8
82.5°	146.7	142.6	141.6	140.6	140.6	140.6	140.6	141.6
85°	105.5	103.5	102.5	100.4	101.5	101.5	102.5	101.5
87.5°	57.3	54.2	54.2	53.2	55.2	54.2	54.2	53.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)