

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: P188532

Luminaire Tested: **24SR-LD2-45-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188532
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-LD2-45-C-UNV-L830-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2695.0 lumens
Efficiency: N/A
Efficacy: 73.4 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

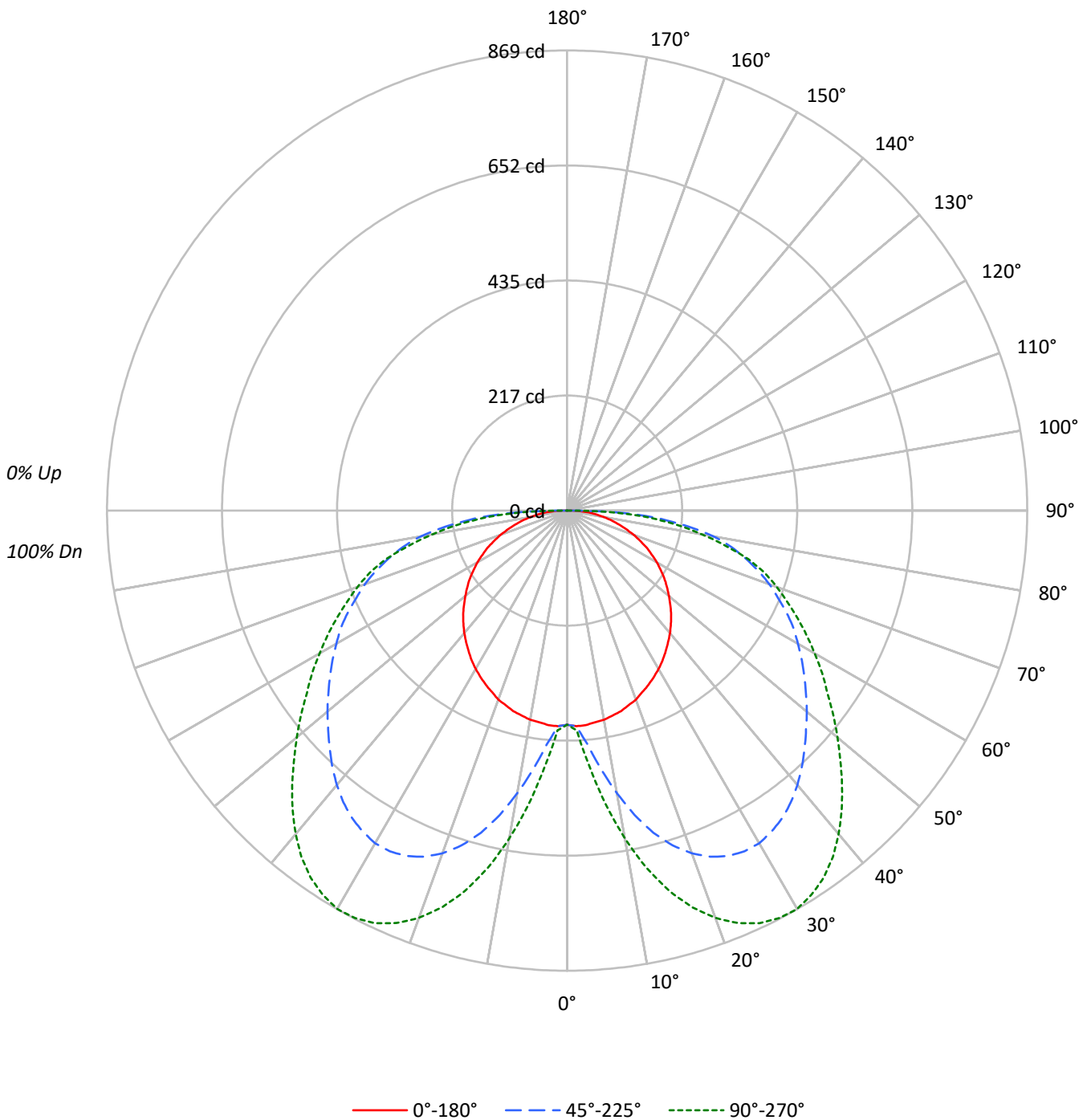
Input Watts (W): 36.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	544	544	544
5°	549	599	656
10°	548	741	859
15°	546	877	1035
20°	544	986	1172
25°	539	1069	1276
30°	537	1127	1349
35°	533	1164	1388
40°	531	1188	1401
45°	528	1207	1397
50°	525	1237	1395
55°	526	1282	1407
60°	526	1354	1453
65°	527	1457	1528
70°	524	1599	1656
75°	526	1813	1842
80°	542	2177	2005
85°	634	2709	2435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.7
10°-20°	170.1	6.3
20°-30°	309.5	11.5
30°-40°	410.6	15.2
40°-50°	449.8	16.7
50°-60°	442.1	16.4
60°-70°	401.0	14.9
70°-80°	317.8	11.8
80°-90°	149.0	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°	524.6	19.5
0°-40°	935.2	34.7
0°-60°	1827.2	67.8
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	406	409	443	474	485	39
15°	392	487	630	715	743	111
25°	363	537	720	822	860	167
35°	324	525	709	809	845	203
45°	278	472	634	711	734	214
55°	224	414	546	589	600	200
65°	166	358	458	471	480	163
75°	101	277	349	349	354	107
85°	41	149	176	158	158	42
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°	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3
2.5°	407.6	406.5	406.5	406.5	405.4	405.4	405.4	406.5	406.5	407.6	409.9
5°	406.5	405.4	405.4	405.4	407.6	411.0	417.6	425.4	434.3	443.2	453.2
7.5°	403.2	403.2	403.2	406.5	416.5	429.9	446.5	463.2	477.6	493.2	507.6
10°	401.0	401.0	403.2	414.3	434.3	456.5	478.7	500.9	520.9	542.0	562.0
12.5°	396.5	396.5	403.2	424.3	452.1	480.9	508.7	536.5	563.1	588.7	610.9
15°	392.1	392.1	406.5	436.5	469.8	504.3	537.6	569.8	600.9	629.8	655.3
17.5°	385.4	386.5	408.8	445.4	485.4	524.3	560.9	597.6	630.9	663.1	689.8
20°	379.9	382.1	411.0	453.2	497.6	540.9	582.0	619.8	655.3	688.7	717.5
22.5°	371.0	375.4	412.1	458.7	506.5	553.1	595.4	635.3	673.1	707.5	736.4
25°	363.2	368.8	411.0	461.0	513.2	560.9	604.2	645.3	684.2	719.8	749.7
27.5°	354.3	363.2	409.9	462.1	515.4	564.3	608.7	650.9	689.8	725.3	756.4
30°	345.4	356.5	406.5	461.0	514.3	563.1	607.6	650.9	689.8	725.3	755.3
32.5°	335.4	347.7	399.9	455.4	509.8	557.6	602.0	644.2	684.2	718.6	748.6
35°	324.3	338.8	392.1	447.6	500.9	548.7	592.0	634.2	673.1	708.6	737.5
37.5°	313.2	329.9	383.2	438.7	490.9	537.6	579.8	622.0	659.8	694.2	722.0
40°	302.1	319.9	373.2	427.6	478.7	524.3	566.5	607.6	643.1	676.4	702.0
42.5°	289.9	309.9	362.1	415.4	464.3	508.7	550.9	590.9	625.3	656.4	680.9
45°	277.7	297.7	349.9	402.1	451.0	493.2	534.3	573.1	605.4	634.2	657.6
47.5°	264.4	286.6	338.8	388.8	435.4	478.7	518.7	554.3	586.5	612.0	634.2
50°	251.0	274.4	325.4	375.4	421.0	463.2	502.1	536.5	566.5	590.9	609.8
52.5°	237.7	262.1	313.2	362.1	407.6	448.7	486.5	518.7	546.5	568.7	587.6
55°	224.4	249.9	301.0	348.8	394.3	434.3	471.0	500.9	527.6	546.5	562.0
57.5°	209.9	237.7	288.8	336.6	381.0	421.0	455.4	484.3	508.7	525.4	538.7
60°	195.5	224.4	275.5	324.3	367.7	406.5	439.9	467.6	488.7	503.2	515.4
62.5°	179.9	211.0	263.2	311.0	354.3	392.1	423.2	447.6	468.7	482.1	488.7
65°	165.5	197.7	249.9	297.7	339.9	375.4	405.4	428.7	446.5	457.6	463.2
67.5°	148.8	183.3	235.5	283.2	323.2	357.7	385.4	407.6	423.2	431.0	435.4
70°	133.3	168.8	219.9	266.6	304.3	337.7	364.3	385.4	398.8	406.5	407.6
72.5°	116.6	153.3	204.4	248.8	285.5	316.6	342.1	361.0	372.1	378.8	379.9
75°	101.1	136.6	185.5	227.7	262.1	291.0	315.4	333.2	344.3	348.8	348.8
77.5°	85.5	118.8	165.5	205.5	237.7	264.4	286.6	304.3	313.2	317.7	317.7
80°	70.0	102.2	144.4	181.0	209.9	234.4	256.6	272.1	281.0	281.0	274.4
82.5°	55.5	83.3	120.0	153.3	177.7	199.9	221.0	231.0	233.3	231.0	225.5
85°	41.1	63.3	93.3	118.8	141.1	156.6	169.9	176.6	177.7	175.5	171.1
87.5°	23.3	36.7	53.3	70.0	84.4	92.2	103.3	105.5	105.5	108.9	103.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188532

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3
2.5°	411.0	412.1	412.1	415.4	415.4	416.5	415.4	415.4
5°	459.8	464.3	471.0	477.6	479.8	484.3	483.2	485.4
7.5°	518.7	527.6	537.6	546.5	550.9	555.4	556.5	559.8
10°	577.6	588.7	600.9	613.1	619.8	623.1	627.6	628.7
12.5°	628.7	645.3	657.6	670.9	679.8	684.2	688.7	690.9
15°	675.3	692.0	707.5	722.0	730.9	737.5	742.0	743.1
17.5°	710.9	729.8	746.4	762.0	770.9	778.6	783.1	785.3
20°	738.6	759.7	776.4	792.0	802.0	810.8	817.5	818.6
22.5°	758.6	779.7	798.6	814.2	826.4	835.3	840.8	843.0
25°	773.1	795.3	814.2	829.7	841.9	851.9	857.5	859.7
27.5°	779.7	803.1	823.1	837.5	849.7	859.7	866.4	867.5
30°	780.8	803.1	823.1	838.6	850.8	860.8	866.4	868.6
32.5°	773.1	796.4	816.4	830.8	843.0	853.0	858.6	859.7
35°	762.0	783.1	802.0	816.4	828.6	837.5	843.0	845.3
37.5°	745.3	765.3	783.1	796.4	807.5	816.4	821.9	824.2
40°	725.3	744.2	760.9	773.1	783.1	790.8	795.3	797.5
42.5°	702.0	719.8	735.3	745.3	755.3	762.0	765.3	767.5
45°	677.5	694.2	706.4	715.3	724.2	729.8	733.1	734.2
47.5°	652.0	666.4	676.4	684.2	690.9	696.4	699.8	699.8
50°	626.5	638.7	646.4	654.2	659.8	663.1	665.3	666.4
52.5°	600.9	610.9	616.5	623.1	627.6	630.9	633.1	633.1
55°	574.3	582.0	586.5	592.0	596.5	598.7	600.9	599.8
57.5°	548.7	554.3	557.6	562.0	565.4	567.6	569.8	570.9
60°	522.0	526.5	527.6	532.0	535.4	537.6	538.7	539.8
62.5°	494.3	497.6	499.8	502.1	505.4	507.6	508.7	509.8
65°	466.5	468.7	468.7	473.2	476.5	477.6	478.7	479.8
67.5°	437.6	438.7	439.9	443.2	446.5	447.6	449.8	449.8
70°	408.8	408.8	409.9	413.2	416.5	417.6	419.9	421.0
72.5°	378.8	379.9	379.9	383.2	386.5	388.8	389.9	391.0
75°	347.7	347.7	348.8	349.9	351.0	352.1	352.1	354.3
77.5°	314.3	309.9	307.7	305.5	306.6	306.6	305.5	306.6
80°	267.7	262.1	258.8	257.7	258.8	257.7	257.7	258.8
82.5°	219.9	213.3	211.0	209.9	209.9	209.9	208.8	211.0
85°	165.5	161.1	158.8	156.6	157.7	157.7	156.6	157.7
87.5°	100.0	97.7	95.5	93.3	94.4	93.3	92.2	95.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)