

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: P188347

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24639)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-25-C-UNV-L830-CD1-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 2 / 1.87
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

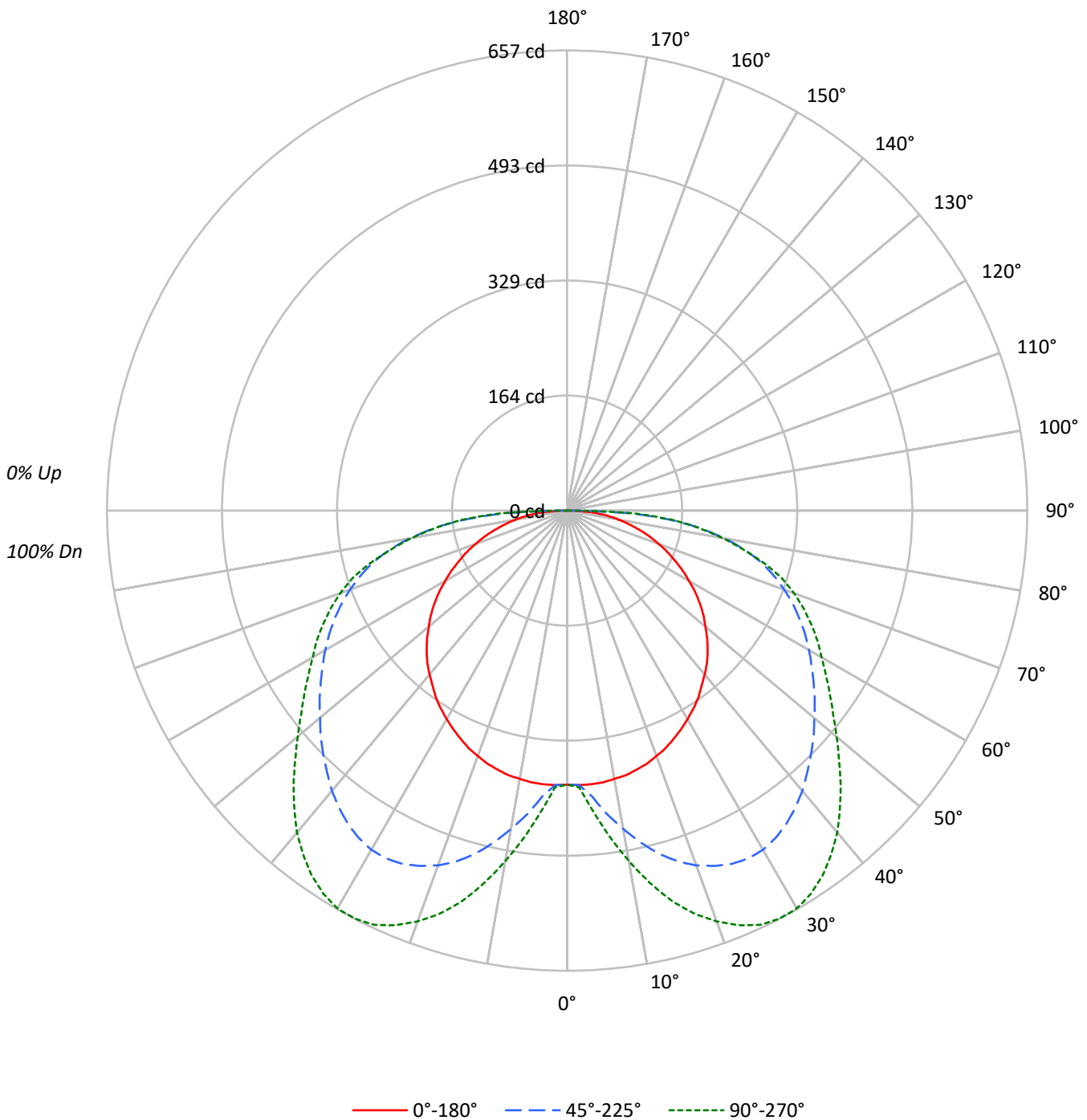
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	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	34	28	26
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1147	1147	1147
5°	1154	1205	1269
10°	1157	1373	1512
15°	1162	1539	1749
20°	1163	1681	1946
25°	1163	1799	2110
30°	1163	1892	2219
35°	1167	1952	2274
40°	1168	1998	2295
45°	1176	2040	2289
50°	1175	2100	2290
55°	1181	2195	2340
60°	1178	2338	2459
65°	1180	2540	2667
70°	1193	2824	2952
75°	1209	3249	3306
80°	1267	3844	3802
85°	1402	4908	5023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.9
10°-20°	140.2	6.5
20°-30°	246.3	11.3
30°-40°	324.2	14.9
40°-50°	356.6	16.4
50°-60°	353.3	16.3
60°-70°	325.2	15.0
70°-80°	260.7	12.0
80°-90°	124.0	5.7
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°	427.1	19.7
0°-40°	751.3	34.6
0°-60°	1461.2	67.3
0°-90°	2171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	392	393	410	426	431	37
15°	383	433	507	557	577	108
25°	360	449	557	627	652	166
35°	326	434	546	614	636	204
45°	284	394	492	539	552	219
55°	231	343	430	455	458	207
65°	170	286	366	378	385	169
75°	107	215	287	291	292	113
85°	42	101	146	147	149	44
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°	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3
2.5°	392.2	393.0	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	393.0
5°	392.2	392.2	392.2	392.2	392.2	394.7	397.2	400.5	405.5	409.7	414.7
7.5°	391.3	391.3	391.3	392.2	397.2	403.9	412.2	420.6	429.7	437.2	443.9
10°	388.8	388.8	389.7	395.5	404.7	417.2	428.9	440.6	450.6	461.4	472.3
12.5°	387.2	387.2	389.7	400.5	414.7	430.6	444.7	458.9	473.1	485.6	498.2
15°	383.0	383.0	388.8	404.7	423.9	441.4	458.9	475.6	492.3	507.3	521.5
17.5°	378.8	378.8	388.0	408.9	429.7	449.8	469.8	489.8	508.2	524.9	540.7
20°	373.0	373.8	387.2	410.5	433.1	456.4	479.0	499.8	520.7	539.0	556.6
22.5°	367.1	368.0	385.5	411.4	435.6	460.6	484.8	508.2	529.9	549.1	568.2
25°	359.6	362.1	382.2	409.7	436.4	462.3	488.1	512.3	535.7	556.6	575.8
27.5°	352.1	355.5	378.0	406.4	434.7	461.4	488.1	514.0	537.4	559.9	579.1
30°	343.8	348.0	373.0	402.2	431.4	458.9	486.5	512.3	536.5	559.1	578.3
32.5°	335.4	339.6	366.3	396.4	425.6	453.9	481.5	508.2	531.5	554.1	574.1
35°	326.3	332.1	359.6	389.7	419.7	448.1	475.6	501.5	524.9	545.7	564.9
37.5°	315.4	322.9	350.5	381.3	411.4	439.7	466.4	492.3	514.8	534.9	553.2
40°	305.4	313.7	342.1	372.2	402.2	430.6	456.4	481.5	503.2	522.4	539.9
42.5°	295.4	304.6	332.1	362.1	391.3	419.7	445.6	468.9	489.8	507.3	524.0
45°	283.7	293.7	321.3	351.3	380.5	408.0	433.1	455.6	476.5	492.3	507.3
47.5°	271.2	282.9	310.4	340.4	368.8	395.5	420.6	441.4	460.6	477.3	490.6
50°	257.8	271.2	298.7	328.8	356.3	383.0	407.2	428.1	445.6	460.6	473.1
52.5°	245.3	258.7	286.2	315.4	343.8	370.5	393.8	413.9	430.6	445.6	456.4
55°	231.1	245.3	273.7	302.1	330.4	356.3	379.7	399.7	415.5	429.7	439.7
57.5°	217.0	232.0	259.5	288.7	316.2	342.9	366.3	385.5	401.4	413.9	423.1
60°	201.1	217.8	245.3	274.5	302.9	328.8	352.1	371.3	386.3	398.9	406.4
62.5°	186.1	202.8	232.0	260.3	287.9	314.6	337.9	356.3	371.3	383.0	389.7
65°	170.2	187.7	216.1	245.3	272.9	299.6	322.1	341.3	355.5	366.3	373.0
67.5°	155.2	172.7	200.3	228.6	256.2	283.7	305.4	323.8	337.9	348.8	354.6
70°	139.3	156.9	184.4	211.1	239.5	265.3	287.9	306.2	319.6	329.6	335.4
72.5°	123.5	141.9	166.9	194.4	221.1	247.8	268.7	287.0	300.4	309.6	314.6
75°	106.8	125.2	150.2	174.4	201.9	227.8	248.7	266.2	278.7	287.0	291.2
77.5°	91.0	107.6	131.8	156.0	180.2	205.3	225.3	242.8	252.8	260.3	264.5
80°	75.1	90.1	111.8	134.3	156.0	179.4	197.8	213.6	223.6	227.8	230.3
82.5°	59.2	72.6	89.3	109.3	128.5	147.7	164.4	177.7	185.2	191.1	192.8
85°	41.7	50.1	63.4	77.6	93.5	109.3	124.3	134.3	141.9	146.0	146.9
87.5°	21.7	25.0	31.7	40.1	51.7	62.6	70.9	77.6	83.4	87.6	91.8
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: P188347

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	391.3	391.3	391.3	391.3	391.3	391.3	391.3	391.3
2.5°	393.0	393.0	394.7	394.7	395.5	395.5	394.7	395.5
5°	418.0	421.4	426.4	426.4	429.7	431.4	431.4	431.4
7.5°	448.9	453.9	459.8	463.1	467.3	469.8	470.6	470.6
10°	479.0	486.5	493.1	498.2	503.2	505.7	508.2	508.2
12.5°	507.3	516.5	524.9	531.5	537.4	540.7	543.2	544.0
15°	533.2	544.9	553.2	561.6	568.2	572.4	574.9	576.6
17.5°	554.9	567.4	577.4	585.8	593.3	598.3	602.5	603.3
20°	571.6	584.9	596.6	605.8	614.1	619.1	623.3	624.2
22.5°	584.1	599.1	611.6	621.6	630.0	635.8	639.2	640.8
25°	592.4	607.5	621.6	632.5	641.7	647.5	650.0	652.5
27.5°	596.6	612.5	626.7	637.5	646.7	652.5	655.9	656.7
30°	596.6	611.6	625.8	636.7	645.0	650.9	654.2	655.9
32.5°	590.8	605.8	619.1	630.0	637.5	643.3	646.7	648.3
35°	581.6	595.8	609.1	618.3	626.7	630.8	635.0	635.8
37.5°	569.1	582.4	594.9	603.3	610.8	615.0	618.3	619.1
40°	554.1	566.6	577.4	584.9	591.6	595.8	598.3	600.0
42.5°	537.4	548.2	557.4	564.1	569.1	573.3	574.9	576.6
45°	519.0	528.2	536.5	542.4	546.5	549.1	551.6	552.4
47.5°	500.7	509.0	515.7	520.7	522.4	524.9	525.7	526.5
50°	482.3	489.0	494.8	497.3	499.8	501.5	501.5	502.3
52.5°	463.9	470.6	473.1	476.5	478.1	479.0	479.0	479.0
55°	446.4	451.4	453.9	455.6	456.4	458.1	458.1	458.1
57.5°	429.7	433.1	433.9	435.6	436.4	438.1	438.1	438.1
60°	411.4	414.7	415.5	416.4	417.2	418.9	419.7	419.7
62.5°	394.7	397.2	396.4	398.0	398.9	400.5	402.2	403.0
65°	376.3	378.0	378.0	378.8	381.3	382.2	383.8	384.7
67.5°	358.0	358.8	358.8	360.5	362.1	363.8	364.6	365.5
70°	337.1	338.8	337.9	339.6	341.3	342.9	344.6	344.6
72.5°	315.4	316.2	317.1	316.2	317.9	319.6	320.4	321.3
75°	290.4	292.0	292.0	290.4	291.2	291.2	292.0	292.0
77.5°	261.2	260.3	257.8	256.2	256.2	257.0	257.0	257.8
80°	227.8	226.1	224.5	222.8	222.8	223.6	223.6	225.3
82.5°	191.1	189.4	187.7	186.9	187.7	187.7	188.6	189.4
85°	147.7	145.2	147.7	146.0	147.7	147.7	147.7	149.4
87.5°	91.8	92.6	95.1	94.3	93.5	94.3	97.6	96.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)