

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: P188564

Luminaire Tested: **24SR-LD2-34-C-UNV-L840-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24637)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-34-C-UNV-L840-CD1-PL-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.98 / 1.87
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

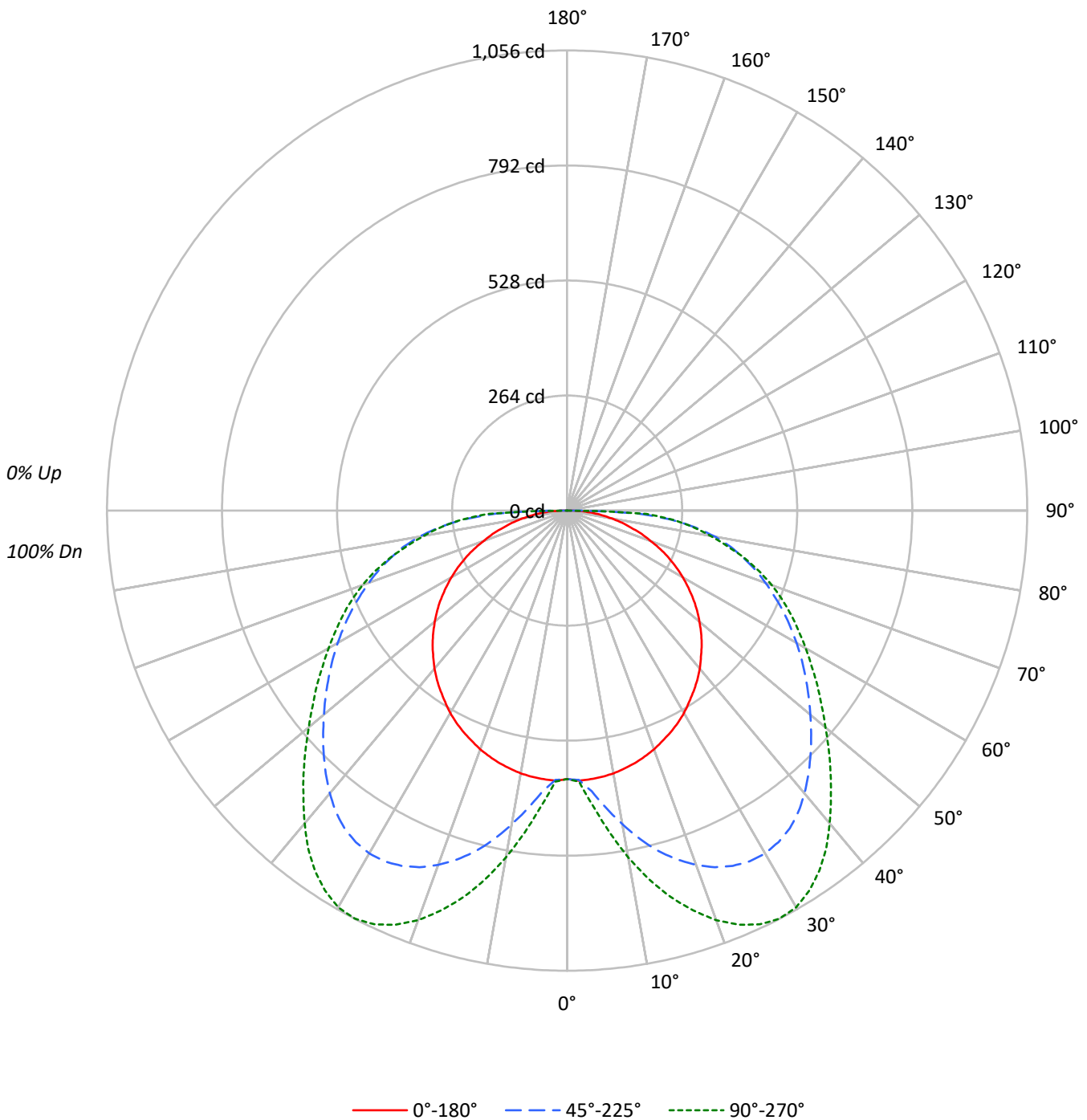
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	83	80	78
2	95	85	77	70	92	83	76	70	80	73	68	76	71	66	73	69	65	62
3	86	74	64	57	83	72	63	56	69	61	55	66	60	54	63	58	53	51
4	78	64	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45	42
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	59	45	36	30	43	35	29	42	35	29	40	34	29	27
8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	26	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21
10	49	35	26	21	48	34	26	21	33	26	21	32	25	21	31	25	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	829	829	829
5°	836	873	918
10°	837	999	1104
15°	836	1127	1279
20°	835	1239	1432
25°	833	1335	1555
30°	833	1411	1633
35°	831	1463	1657
40°	832	1489	1646
45°	831	1503	1628
50°	830	1524	1620
55°	829	1567	1645
60°	825	1636	1701
65°	819	1741	1807
70°	804	1905	1965
75°	793	2177	2191
80°	799	2669	2585
85°	872	3696	3765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.9
10°-20°	222.5	6.5
20°-30°	394.4	11.6
30°-40°	519.0	15.3
40°-50°	562.8	16.6
50°-60°	547.8	16.1
60°-70°	492.2	14.5
70°-80°	389.9	11.5
80°-90°	204.3	6.0
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°	680.9	20.0
0°-40°	1199.9	35.3
0°-60°	2310.5	68.0
0°-90°	3397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	619	619	647	671	680	59
15°	600	678	809	890	918	169
25°	561	715	900	1008	1047	259
35°	506	696	890	981	1009	317
45°	437	632	790	842	856	337
55°	353	549	668	691	701	316
65°	257	460	547	557	568	254
75°	152	346	419	419	422	162
85°	56	184	239	240	244	60
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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	620.6	619.7	618.8	617.9	617.0	616.1	616.1	616.1	617.0	618.8	621.5
5°	618.8	617.9	617.0	617.0	617.9	619.7	625.1	631.3	637.6	646.6	656.4
7.5°	616.1	615.2	615.2	617.0	624.2	634.9	647.5	660.9	674.4	688.7	702.2
10°	612.5	611.6	612.5	620.6	636.7	654.6	673.5	692.3	710.2	730.9	749.7
12.5°	606.2	606.2	610.7	626.8	650.2	674.4	698.6	723.7	747.0	772.1	793.6
15°	599.9	599.9	609.8	634.0	663.6	692.3	722.8	752.4	780.2	808.9	834.0
17.5°	591.9	591.9	608.9	639.4	673.5	708.5	743.4	776.6	808.0	839.4	866.3
20°	582.9	584.7	607.1	643.9	682.4	721.9	759.6	796.3	831.3	865.4	895.0
22.5°	572.1	575.7	604.4	645.7	689.6	730.9	772.1	811.6	848.3	886.0	915.6
25°	561.4	566.8	600.8	645.7	692.3	737.1	780.2	821.4	860.9	899.5	931.7
27.5°	549.7	556.9	595.5	643.0	693.2	738.9	783.8	826.8	868.1	907.5	940.7
30°	536.3	545.2	587.4	637.6	689.6	736.3	782.9	827.7	869.0	908.4	940.7
32.5°	521.0	532.7	577.5	629.5	682.4	730.0	776.6	821.4	863.6	902.2	932.6
35°	505.8	520.1	566.8	619.7	672.6	720.1	766.7	812.5	853.7	890.5	917.4
37.5°	490.5	505.8	553.3	606.2	659.1	706.7	754.2	798.1	837.6	871.7	895.9
40°	473.5	490.5	538.1	591.9	643.9	691.4	738.0	780.2	816.1	847.5	869.9
42.5°	454.7	473.5	521.9	575.7	626.8	673.5	718.3	757.8	791.9	819.7	838.5
45°	436.7	456.5	504.9	558.7	608.9	654.6	697.7	734.5	764.9	790.1	806.2
47.5°	417.0	437.6	487.8	539.9	589.2	634.0	675.3	708.5	738.0	759.6	773.9
50°	396.4	418.8	469.0	521.0	569.5	613.4	652.9	683.3	710.2	728.2	741.6
52.5°	375.7	399.1	449.3	501.3	549.7	591.9	629.5	659.1	682.4	698.6	710.2
55°	353.3	379.3	429.6	481.6	528.2	570.3	606.2	633.1	654.6	668.1	678.9
57.5°	330.0	357.8	409.8	461.8	508.5	548.8	582.9	608.0	626.8	638.5	646.6
60°	306.7	336.3	388.3	440.3	486.1	526.4	558.7	582.0	599.0	608.0	614.3
62.5°	282.5	313.9	366.8	418.8	465.4	503.1	533.6	555.1	570.3	577.5	583.8
65°	257.4	290.6	344.4	396.4	443.0	478.0	507.6	527.3	540.8	547.0	550.6
67.5°	231.4	266.3	321.0	373.1	417.9	452.0	479.8	499.5	510.3	515.6	518.3
70°	204.5	241.2	295.9	347.9	391.0	423.3	450.2	468.1	478.9	484.3	485.2
72.5°	179.4	215.2	270.8	321.0	362.3	393.7	418.8	437.6	448.4	452.9	452.9
75°	152.5	188.3	243.0	291.5	330.9	361.4	386.5	404.4	414.3	418.8	418.8
77.5°	129.1	162.3	213.4	260.1	296.8	326.4	350.6	369.5	380.2	384.7	384.7
80°	103.1	135.4	182.9	226.0	260.1	287.0	312.1	331.8	342.6	344.4	341.7
82.5°	79.8	109.4	149.8	188.3	219.7	244.8	269.9	286.1	294.1	295.9	295.0
85°	56.5	80.7	114.8	146.2	172.2	195.5	213.4	228.7	236.7	239.4	241.2
87.5°	33.2	46.6	68.2	92.4	112.1	127.3	138.1	151.6	159.6	165.0	170.4
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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	620.6	621.5	622.4	622.4	622.4	623.3	622.4	622.4
5°	660.0	665.4	669.9	672.6	675.3	679.8	678.9	679.8
7.5°	709.3	718.3	728.2	733.6	737.1	742.5	744.3	744.3
10°	760.5	773.0	784.7	792.7	798.1	806.2	807.1	808.0
12.5°	808.9	824.1	837.6	846.6	854.6	861.8	865.4	866.3
15°	850.1	869.0	884.2	895.9	903.9	912.0	916.5	918.3
17.5°	886.9	906.6	923.7	937.1	947.0	955.1	960.4	962.2
20°	915.6	937.1	956.0	970.3	982.0	990.9	998.1	999.9
22.5°	938.9	961.3	981.1	997.2	1008.9	1019.6	1025.9	1028.6
25°	956.0	980.2	1000.8	1016.0	1028.6	1038.5	1044.7	1047.4
27.5°	965.8	990.0	1009.8	1025.0	1037.6	1046.5	1052.8	1055.5
30°	965.8	989.1	1008.9	1023.2	1034.9	1043.8	1048.3	1051.0
32.5°	956.0	978.4	996.3	1008.9	1019.6	1028.6	1032.2	1034.0
35°	939.8	959.5	975.7	986.5	995.4	1003.5	1007.1	1008.9
37.5°	916.5	934.4	947.0	956.9	964.0	972.1	974.8	976.6
40°	886.9	903.9	912.9	921.9	928.2	935.3	937.1	937.1
42.5°	854.6	869.0	877.9	884.2	888.7	893.2	895.9	895.9
45°	820.5	833.1	839.4	844.8	849.2	852.8	855.5	855.5
47.5°	786.5	796.3	801.7	805.3	808.9	812.5	814.3	814.3
50°	752.4	759.6	764.1	766.7	770.3	773.0	774.8	773.9
52.5°	718.3	723.7	727.3	730.0	731.8	734.5	735.4	736.3
55°	684.2	687.8	690.5	692.3	695.9	698.6	699.5	701.3
57.5°	651.1	652.9	656.4	657.3	660.9	663.6	664.5	665.4
60°	617.0	618.8	621.5	623.3	627.7	629.5	630.4	632.2
62.5°	583.8	584.7	588.3	591.9	595.5	597.3	598.1	599.0
65°	550.6	553.3	556.0	558.7	562.3	565.0	565.9	567.7
67.5°	518.3	520.1	523.7	526.4	529.1	531.8	533.6	534.5
70°	485.2	486.9	489.6	491.4	494.1	496.8	499.5	499.5
72.5°	452.9	452.9	454.7	456.5	459.1	460.9	461.8	461.8
75°	417.9	417.0	418.8	419.7	419.7	419.7	420.6	421.5
77.5°	380.2	376.6	374.9	374.9	375.7	374.0	374.9	375.7
80°	337.2	333.6	332.7	332.7	333.6	332.7	333.6	333.6
82.5°	291.5	291.5	288.8	289.7	290.6	288.8	290.6	292.3
85°	238.5	239.4	238.5	241.2	241.2	241.2	242.1	243.9
87.5°	171.3	176.7	174.9	178.5	177.6	178.5	179.4	182.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)