

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: P188565

Luminaire Tested: **24SR-LD2-34-C-UNV-L850-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188565  
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-L850-CD1-PL-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

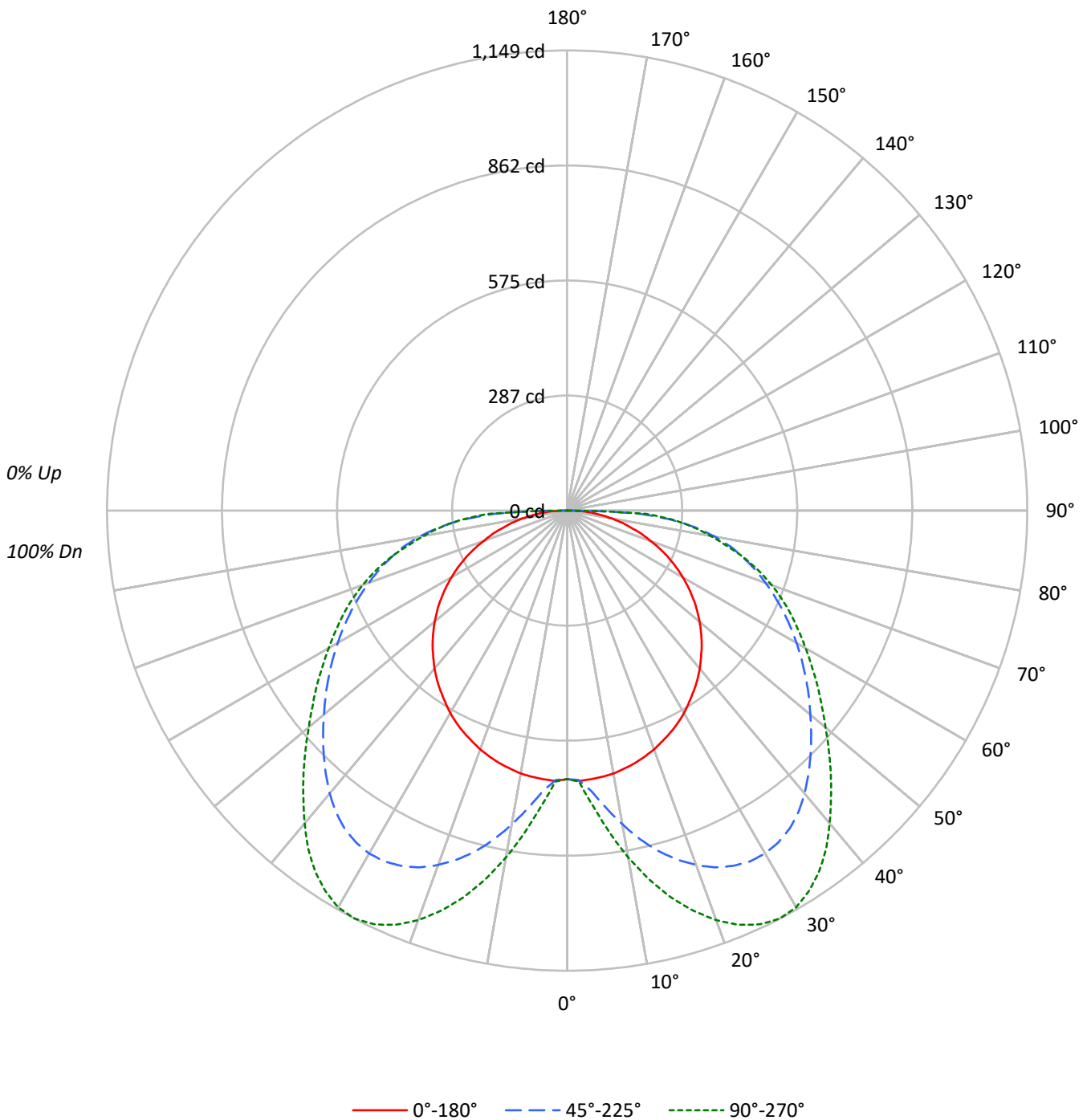
Lumens per Lamp: N/A  
Luminaire Lumens: 3697.0 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.98 / 1.87  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	902	902	902
5°	910	950	999
10°	911	1087	1201
15°	909	1226	1392
20°	908	1349	1558
25°	907	1453	1692
30°	907	1536	1777
35°	904	1592	1804
40°	905	1620	1791
45°	904	1636	1772
50°	903	1659	1763
55°	902	1706	1790
60°	898	1781	1852
65°	892	1895	1967
70°	875	2073	2138
75°	862	2370	2385
80°	869	2904	2813
85°	949	4023	4099



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	1.9
10°-20°	242.1	6.5
20°-30°	429.2	11.6
30°-40°	564.8	15.3
40°-50°	612.5	16.6
50°-60°	596.2	16.1
60°-70°	535.7	14.5
70°-80°	424.3	11.5
80°-90°	222.4	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°	741.1	20.0
0°-40°	1305.9	35.3
0°-60°	2514.6	68.0
0°-90°	3697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	673	673	704	731	740	64
15°	653	738	880	969	999	184
25°	611	778	979	1098	1140	282
35°	550	758	969	1068	1098	345
45°	475	688	860	916	931	366
55°	384	598	727	752	763	343
65°	280	501	595	607	618	277
75°	166	377	456	456	459	176
85°	62	200	261	261	266	65
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°	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
2.5°	675.4	674.4	673.4	672.4	671.5	670.5	670.5	670.5	671.5	673.4	676.3
5°	673.4	672.4	671.5	671.5	672.4	674.4	680.3	687.1	693.9	703.7	714.4
7.5°	670.5	669.5	669.5	671.5	679.3	691.0	704.7	719.3	733.9	749.5	764.2
10°	666.6	665.6	666.6	675.4	692.9	712.5	733.0	753.4	773.0	795.4	815.9
12.5°	659.8	659.8	664.6	682.2	707.6	733.9	760.3	787.6	813.0	840.3	863.7
15°	652.9	652.9	663.7	690.0	722.2	753.4	786.6	818.8	849.1	880.3	907.7
17.5°	644.1	644.1	662.7	695.9	733.0	771.0	809.1	845.2	879.4	913.5	942.8
20°	634.4	636.3	660.7	700.7	742.7	785.7	826.6	866.7	904.7	941.8	974.0
22.5°	622.7	626.6	657.8	702.7	750.5	795.4	840.3	883.3	923.3	964.3	996.5
25°	611.0	616.8	653.9	702.7	753.4	802.2	849.1	894.0	936.9	978.9	1014.0
27.5°	598.3	606.1	648.0	699.8	754.4	804.2	853.0	899.8	944.7	987.7	1023.8
30°	583.6	593.4	639.3	693.9	750.5	801.3	852.0	900.8	945.7	988.7	1023.8
32.5°	567.0	579.7	628.5	685.1	742.7	794.4	845.2	894.0	939.9	981.8	1015.0
35°	550.4	566.1	616.8	674.4	732.0	783.7	834.5	884.2	929.1	969.1	998.4
37.5°	533.9	550.4	602.2	659.8	717.3	769.1	820.8	868.6	911.6	948.6	975.0
40°	515.3	533.9	585.6	644.1	700.7	752.5	803.2	849.1	888.1	922.3	946.7
42.5°	494.8	515.3	568.0	626.6	682.2	733.0	781.8	824.7	861.8	892.0	912.5
45°	475.3	496.8	549.5	608.0	662.7	712.5	759.3	799.3	832.5	859.8	877.4
47.5°	453.8	476.3	530.9	587.5	641.2	690.0	734.9	771.0	803.2	826.6	842.3
50°	431.4	455.8	510.4	567.0	619.7	667.6	710.5	743.7	773.0	792.5	807.1
52.5°	408.9	434.3	489.0	545.6	598.3	644.1	685.1	717.3	742.7	760.3	773.0
55°	384.5	412.8	467.5	524.1	574.8	620.7	659.8	689.0	712.5	727.1	738.8
57.5°	359.2	389.4	446.0	502.6	553.4	597.3	634.4	661.7	682.2	694.9	703.7
60°	333.8	366.0	422.6	479.2	529.0	572.9	608.0	633.4	651.9	661.7	668.5
62.5°	307.4	341.6	399.2	455.8	506.5	547.5	580.7	604.1	620.7	628.5	635.4
65°	280.1	316.2	374.8	431.4	482.1	520.2	552.4	573.9	588.5	595.3	599.2
67.5°	251.8	289.9	349.4	406.0	454.8	491.9	522.1	543.6	555.3	561.2	564.1
70°	222.5	262.5	322.1	378.7	425.5	460.7	489.9	509.5	521.2	527.0	528.0
72.5°	195.2	234.2	294.7	349.4	394.3	428.5	455.8	476.3	488.0	492.9	492.9
75°	165.9	205.0	264.5	317.2	360.1	393.3	420.6	440.2	450.9	455.8	455.8
77.5°	140.5	176.7	232.3	283.0	323.0	355.3	381.6	402.1	413.8	418.7	418.7
80°	112.2	147.4	199.1	245.9	283.0	312.3	339.6	361.1	372.8	374.8	371.8
82.5°	86.9	119.1	163.0	205.0	239.1	266.4	293.8	311.3	320.1	322.1	321.1
85°	61.5	87.8	124.9	159.1	187.4	212.8	232.3	248.9	257.7	260.6	262.5
87.5°	36.1	50.8	74.2	100.5	122.0	138.6	150.3	164.9	173.7	179.6	185.4
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°	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
2.5°	675.4	676.3	677.3	677.3	677.3	678.3	677.3	677.3
5°	718.3	724.2	729.1	732.0	734.9	739.8	738.8	739.8
7.5°	772.0	781.8	792.5	798.3	802.2	808.1	810.1	810.1
10°	827.6	841.3	854.0	862.8	868.6	877.4	878.4	879.4
12.5°	880.3	896.9	911.6	921.3	930.1	937.9	941.8	942.8
15°	925.2	945.7	962.3	975.0	983.8	992.6	997.4	999.4
17.5°	965.2	986.7	1005.3	1019.9	1030.6	1039.4	1045.3	1047.2
20°	996.5	1019.9	1040.4	1056.0	1068.7	1078.4	1086.3	1088.2
22.5°	1021.8	1046.2	1067.7	1085.3	1098.0	1109.7	1116.5	1119.4
25°	1040.4	1066.7	1089.2	1105.8	1119.4	1130.2	1137.0	1139.9
27.5°	1051.1	1077.5	1098.9	1115.5	1129.2	1139.0	1145.8	1148.7
30°	1051.1	1076.5	1098.0	1113.6	1126.3	1136.0	1140.9	1143.8
32.5°	1040.4	1064.8	1084.3	1098.0	1109.7	1119.4	1123.3	1125.3
35°	1022.8	1044.3	1061.9	1073.6	1083.3	1092.1	1096.0	1098.0
37.5°	997.4	1017.0	1030.6	1041.4	1049.2	1058.0	1060.9	1062.8
40°	965.2	983.8	993.5	1003.3	1010.1	1017.9	1019.9	1019.9
42.5°	930.1	945.7	955.5	962.3	967.2	972.1	975.0	975.0
45°	893.0	906.7	913.5	919.4	924.2	928.1	931.1	931.1
47.5°	855.9	866.7	872.5	876.4	880.3	884.2	886.2	886.2
50°	818.8	826.6	831.5	834.5	838.4	841.3	843.2	842.3
52.5°	781.8	787.6	791.5	794.4	796.4	799.3	800.3	801.3
55°	744.7	748.6	751.5	753.4	757.4	760.3	761.3	763.2
57.5°	708.6	710.5	714.4	715.4	719.3	722.2	723.2	724.2
60°	671.5	673.4	676.3	678.3	683.2	685.1	686.1	688.1
62.5°	635.4	636.3	640.2	644.1	648.0	650.0	651.0	651.9
65°	599.2	602.2	605.1	608.0	611.9	614.9	615.8	617.8
67.5°	564.1	566.1	570.0	572.9	575.8	578.8	580.7	581.7
70°	528.0	530.0	532.9	534.8	537.8	540.7	543.6	543.6
72.5°	492.9	492.9	494.8	496.8	499.7	501.6	502.6	502.6
75°	454.8	453.8	455.8	456.8	456.8	456.8	457.7	458.7
77.5°	413.8	409.9	408.0	408.0	408.9	407.0	408.0	408.9
80°	367.0	363.1	362.1	362.1	363.1	362.1	363.1	363.1
82.5°	317.2	317.2	314.3	315.2	316.2	314.3	316.2	318.2
85°	259.6	260.6	259.6	262.5	262.5	262.5	263.5	265.5
87.5°	186.4	192.3	190.3	194.2	193.2	194.2	195.2	198.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)