

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: P188563

Luminaire Tested: **24SR-LD2-34-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188563  
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-L835-CD1-PL-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

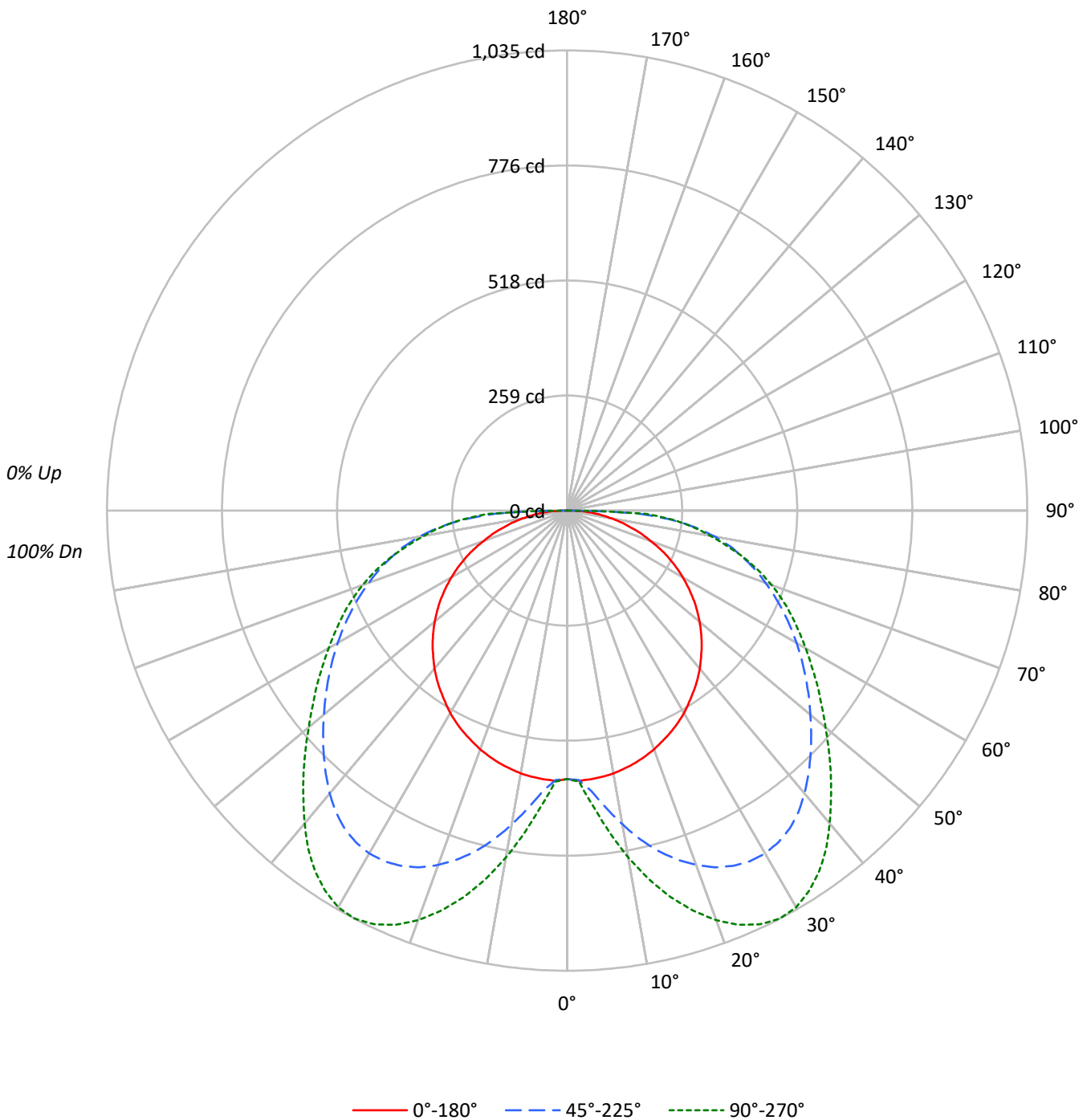
Lumens per Lamp: N/A  
Luminaire Lumens: 3330.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.98 / 1.87  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	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°	813	813	813
5°	819	856	900
10°	820	979	1082
15°	819	1104	1254
20°	818	1215	1403
25°	817	1309	1524
30°	817	1384	1601
35°	814	1434	1624
40°	815	1459	1613
45°	815	1474	1596
50°	813	1494	1588
55°	813	1536	1612
60°	809	1604	1668
65°	803	1707	1772
70°	788	1867	1926
75°	777	2134	2148
80°	783	2616	2534
85°	855	3623	3691



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	1.9
10°-20°	218.1	6.5
20°-30°	386.6	11.6
30°-40°	508.8	15.3
40°-50°	551.7	16.6
50°-60°	537.0	16.1
60°-70°	482.5	14.5
70°-80°	382.2	11.5
80°-90°	200.3	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°	667.5	20.0
0°-40°	1176.3	35.3
0°-60°	2265.0	68.0
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	607	607	634	658	666	58
15°	588	665	793	872	900	166
25°	550	701	882	989	1027	254
35°	496	683	873	962	989	311
45°	428	619	774	825	839	330
55°	346	538	655	678	687	309
65°	252	451	536	546	556	249
75°	149	339	410	411	413	159
85°	55	180	235	235	239	59
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°	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9
2.5°	608.3	607.4	606.6	605.7	604.8	603.9	603.9	603.9	604.8	606.6	609.2
5°	606.6	605.7	604.8	604.8	605.7	607.4	612.7	618.9	625.0	633.8	643.5
7.5°	603.9	603.1	603.1	604.8	611.8	622.4	634.7	647.9	661.1	675.1	688.3
10°	600.4	599.5	600.4	608.3	624.2	641.7	660.2	678.7	696.2	716.5	734.9
12.5°	594.3	594.3	598.7	614.5	637.3	661.1	684.8	709.4	732.3	756.9	778.0
15°	588.1	588.1	597.8	621.5	650.5	678.7	708.5	737.6	764.8	792.9	817.6
17.5°	580.2	580.2	596.9	626.8	660.2	694.5	728.8	761.3	792.1	822.8	849.2
20°	571.4	573.2	595.1	631.2	669.0	707.7	744.6	780.6	814.9	848.3	877.3
22.5°	560.9	564.4	592.5	632.9	676.0	716.5	756.9	795.6	831.6	868.5	897.5
25°	550.3	555.6	589.0	632.9	678.7	722.6	764.8	805.2	843.9	881.7	913.4
27.5°	538.9	545.9	583.7	630.3	679.5	724.4	768.3	810.5	851.0	889.6	922.2
30°	525.7	534.5	575.8	625.0	676.0	721.7	767.4	811.4	851.8	890.5	922.2
32.5°	510.7	522.2	566.1	617.1	669.0	715.6	761.3	805.2	846.6	884.4	914.3
35°	495.8	509.9	555.6	607.4	659.3	705.9	751.6	796.5	836.9	872.9	899.3
37.5°	480.9	495.8	542.4	594.3	646.1	692.7	739.3	782.4	821.1	854.5	878.2
40°	464.2	480.9	527.5	580.2	631.2	677.8	723.5	764.8	800.0	830.7	852.7
42.5°	445.7	464.2	511.6	564.4	614.5	660.2	704.1	742.8	776.2	803.5	821.9
45°	428.1	447.5	494.9	547.7	596.9	641.7	683.9	720.0	749.9	774.5	790.3
47.5°	408.8	429.0	478.2	529.2	577.6	621.5	662.0	694.5	723.5	744.6	758.7
50°	388.6	410.5	459.8	510.7	558.2	601.3	640.0	669.9	696.2	713.8	727.0
52.5°	368.3	391.2	440.4	491.4	538.9	580.2	617.1	646.1	669.0	684.8	696.2
55°	346.4	371.9	421.1	472.1	517.8	559.1	594.3	620.6	641.7	654.9	665.5
57.5°	323.5	350.8	401.7	452.7	498.4	538.0	571.4	596.0	614.5	625.9	633.8
60°	300.6	329.7	380.6	431.6	476.5	516.0	547.7	570.5	587.2	596.0	602.2
62.5°	276.9	307.7	359.5	410.5	456.2	493.2	523.1	544.2	559.1	566.1	572.3
65°	252.3	284.8	337.6	388.6	434.3	468.6	497.6	516.9	530.1	536.2	539.8
67.5°	226.8	261.1	314.7	365.7	409.7	443.1	470.3	489.7	500.2	505.5	508.1
70°	200.4	236.5	290.1	341.1	383.3	414.9	441.3	458.9	469.4	474.7	475.6
72.5°	175.8	211.0	265.5	314.7	355.2	385.9	410.5	429.0	439.5	443.9	443.9
75°	149.4	184.6	238.2	285.7	324.4	354.3	378.9	396.5	406.1	410.5	410.5
77.5°	126.6	159.1	209.2	254.9	291.0	320.0	343.7	362.2	372.7	377.1	377.1
80°	101.1	132.7	179.3	221.5	254.9	281.3	305.9	325.3	335.8	337.6	334.9
82.5°	78.2	107.2	146.8	184.6	215.4	240.0	264.6	280.4	288.3	290.1	289.2
85°	55.4	79.1	112.5	143.3	168.8	191.6	209.2	224.2	232.1	234.7	236.5
87.5°	32.5	45.7	66.8	90.5	109.9	124.8	135.4	148.6	156.5	161.8	167.0
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°	603.9	603.9	603.9	603.9	603.9	603.9	603.9	603.9
2.5°	608.3	609.2	610.1	610.1	610.1	611.0	610.1	610.1
5°	647.0	652.3	656.7	659.3	662.0	666.3	665.5	666.3
7.5°	695.4	704.1	713.8	719.1	722.6	727.9	729.6	729.6
10°	745.5	757.8	769.2	777.1	782.4	790.3	791.2	792.1
12.5°	792.9	807.9	821.1	829.9	837.8	844.8	848.3	849.2
15°	833.4	851.8	866.8	878.2	886.1	894.0	898.4	900.2
17.5°	869.4	888.8	905.5	918.6	928.3	936.2	941.5	943.3
20°	897.5	918.6	937.1	951.2	962.6	971.4	978.4	980.2
22.5°	920.4	942.4	961.7	977.5	989.0	999.5	1005.7	1008.3
25°	937.1	960.8	981.1	996.0	1008.3	1018.0	1024.1	1026.8
27.5°	946.8	970.5	989.9	1004.8	1017.1	1025.9	1032.0	1034.7
30°	946.8	969.6	989.0	1003.0	1014.5	1023.3	1027.7	1030.3
32.5°	937.1	959.1	976.7	989.0	999.5	1008.3	1011.8	1013.6
35°	921.3	940.6	956.4	967.0	975.8	983.7	987.2	989.0
37.5°	898.4	916.0	928.3	938.0	945.0	952.9	955.6	957.3
40°	869.4	886.1	894.9	903.7	909.9	916.9	918.6	918.6
42.5°	837.8	851.8	860.6	866.8	871.2	875.6	878.2	878.2
45°	804.4	816.7	822.8	828.1	832.5	836.0	838.6	838.6
47.5°	771.0	780.6	785.9	789.4	792.9	796.5	798.2	798.2
50°	737.6	744.6	749.0	751.6	755.1	757.8	759.5	758.7
52.5°	704.1	709.4	712.9	715.6	717.3	720.0	720.9	721.7
55°	670.7	674.3	676.9	678.7	682.2	684.8	685.7	687.4
57.5°	638.2	640.0	643.5	644.4	647.9	650.5	651.4	652.3
60°	604.8	606.6	609.2	611.0	615.4	617.1	618.0	619.8
62.5°	572.3	573.2	576.7	580.2	583.7	585.5	586.4	587.2
65°	539.8	542.4	545.0	547.7	551.2	553.8	554.7	556.5
67.5°	508.1	509.9	513.4	516.0	518.7	521.3	523.1	523.9
70°	475.6	477.3	480.0	481.7	484.4	487.0	489.7	489.7
72.5°	443.9	443.9	445.7	447.5	450.1	451.9	452.7	452.7
75°	409.7	408.8	410.5	411.4	411.4	411.4	412.3	413.2
77.5°	372.7	369.2	367.5	367.5	368.3	366.6	367.5	368.3
80°	330.5	327.0	326.1	326.1	327.0	326.1	327.0	327.0
82.5°	285.7	285.7	283.1	283.9	284.8	283.1	284.8	286.6
85°	233.8	234.7	233.8	236.5	236.5	236.5	237.4	239.1
87.5°	167.9	173.2	171.4	174.9	174.1	174.9	175.8	178.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)