

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: P188548

Luminaire Tested: **24SR-LD2-59-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188548
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-LD2-59-C-UNV-L835-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3643.0 lumens
Efficiency: N/A
Efficacy: 72.6 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

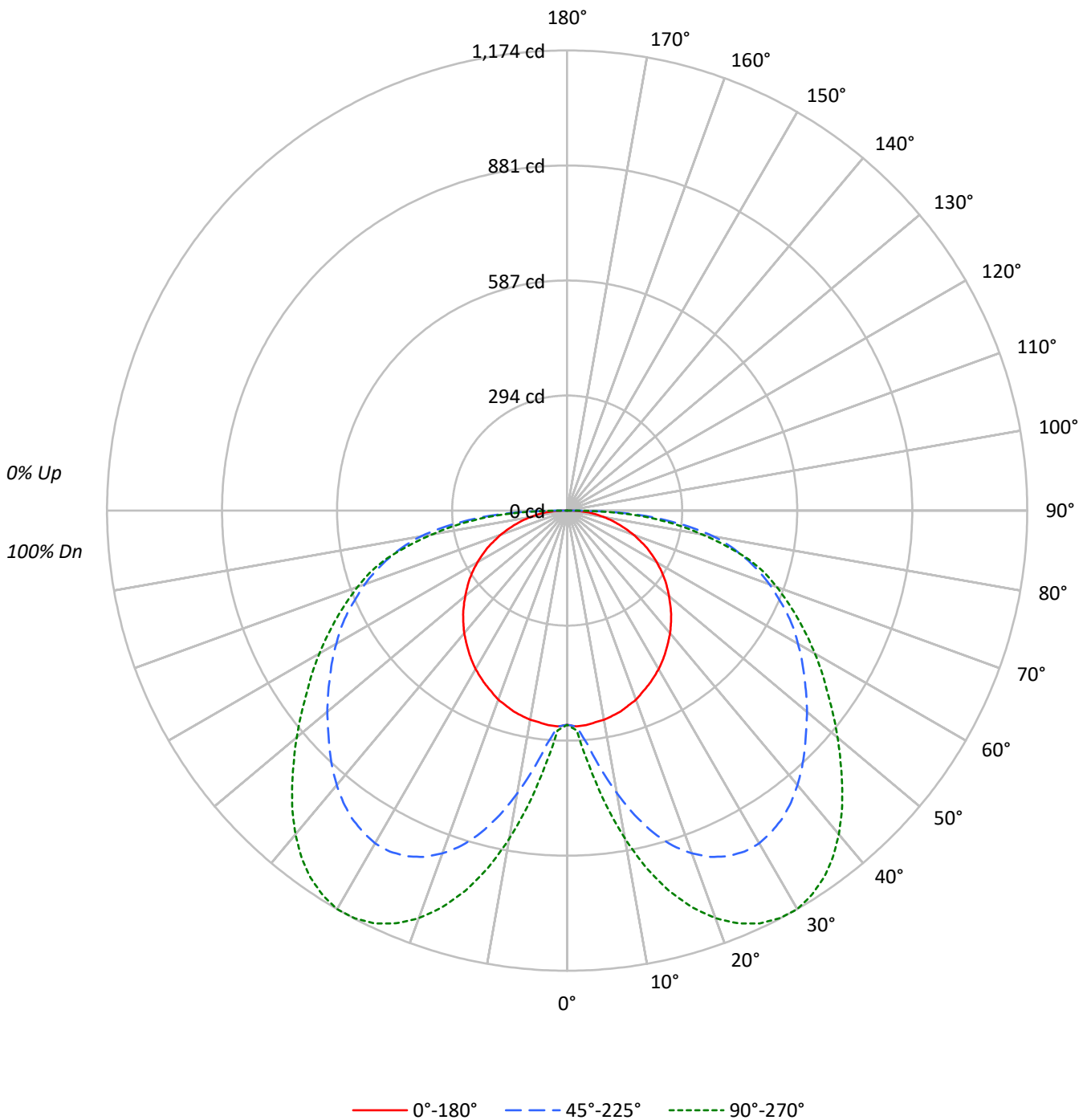
Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	735	735	735
5°	742	809	886
10°	741	1001	1161
15°	738	1186	1399
20°	735	1333	1584
25°	729	1444	1725
30°	726	1523	1824
35°	720	1573	1877
40°	717	1606	1893
45°	714	1631	1889
50°	710	1672	1886
55°	711	1733	1902
60°	711	1830	1964
65°	712	1969	2065
70°	709	2162	2238
75°	710	2451	2490
80°	733	2944	2710
85°	858	3662	3291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.7
10°-20°	229.9	6.3
20°-30°	418.4	11.5
30°-40°	555.0	15.2
40°-50°	608.0	16.7
50°-60°	597.6	16.4
60°-70°	542.1	14.9
70°-80°	429.6	11.8
80°-90°	201.4	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°	709.2	19.5
0°-40°	1264.2	34.7
0°-60°	2469.9	67.8
0°-90°	3643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	550	553	599	641	656	52
15°	530	658	851	966	1004	149
25°	491	726	973	1111	1162	226
35°	438	709	958	1094	1143	275
45°	375	638	857	961	992	289
55°	303	560	739	797	811	271
65°	224	483	619	637	649	220
75°	137	374	472	472	479	144
85°	56	201	237	213	213	57
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°	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5
2.5°	551.0	549.5	549.5	549.5	548.0	548.0	548.0	549.5	549.5	551.0	554.0
5°	549.5	548.0	548.0	548.0	551.0	555.5	564.5	575.1	587.1	599.1	612.6
7.5°	545.0	545.0	545.0	549.5	563.0	581.1	603.6	626.1	645.6	666.6	686.2
10°	542.0	542.0	545.0	560.0	587.1	617.1	647.1	677.2	704.2	732.7	759.7
12.5°	536.0	536.0	545.0	573.6	611.1	650.1	687.7	725.2	761.2	795.8	825.8
15°	530.0	530.0	549.5	590.1	635.1	681.7	726.7	770.2	812.3	851.3	885.9
17.5°	521.0	522.5	552.5	602.1	656.1	708.7	758.2	807.8	852.8	896.4	932.4
20°	513.5	516.5	555.5	612.6	672.6	731.2	786.8	837.8	885.9	930.9	969.9
22.5°	501.5	507.5	557.0	620.1	684.7	747.7	804.8	858.8	909.9	956.4	995.5
25°	491.0	498.5	555.5	623.1	693.7	758.2	816.8	872.3	924.9	972.9	1013.5
27.5°	479.0	491.0	554.0	624.6	696.7	762.7	822.8	879.9	932.4	980.4	1022.5
30°	467.0	482.0	549.5	623.1	695.2	761.2	821.3	879.9	932.4	980.4	1021.0
32.5°	453.4	470.0	540.5	615.6	689.2	753.7	813.8	870.8	924.9	971.4	1012.0
35°	438.4	457.9	530.0	605.1	677.2	741.7	800.3	857.3	909.9	957.9	997.0
37.5°	423.4	445.9	518.0	593.1	663.6	726.7	783.8	840.8	891.9	938.4	975.9
40°	408.4	432.4	504.5	578.1	647.1	708.7	765.7	821.3	869.3	914.4	948.9
42.5°	391.9	418.9	489.5	561.5	627.6	687.7	744.7	798.8	845.3	887.4	920.4
45°	375.4	402.4	473.0	543.5	609.6	666.6	722.2	774.7	818.3	857.3	888.9
47.5°	357.3	387.4	457.9	525.5	588.6	647.1	701.2	749.2	792.8	827.3	857.3
50°	339.3	370.9	439.9	507.5	569.0	626.1	678.7	725.2	765.7	798.8	824.3
52.5°	321.3	354.3	423.4	489.5	551.0	606.6	657.6	701.2	738.7	768.7	794.3
55°	303.3	337.8	406.9	471.5	533.0	587.1	636.6	677.2	713.2	738.7	759.7
57.5°	283.8	321.3	390.4	454.9	515.0	569.0	615.6	654.6	687.7	710.2	728.2
60°	264.3	303.3	372.4	438.4	497.0	549.5	594.6	632.1	660.6	680.2	696.7
62.5°	243.2	285.3	355.8	420.4	479.0	530.0	572.1	605.1	633.6	651.6	660.6
65°	223.7	267.3	337.8	402.4	459.4	507.5	548.0	579.6	603.6	618.6	626.1
67.5°	201.2	247.7	318.3	382.9	436.9	483.5	521.0	551.0	572.1	582.6	588.6
70°	180.2	228.2	297.3	360.3	411.4	456.4	492.5	521.0	539.0	549.5	551.0
72.5°	157.7	207.2	276.3	336.3	385.9	427.9	462.4	488.0	503.0	512.0	513.5
75°	136.6	184.7	250.7	307.8	354.3	393.4	426.4	450.4	465.4	471.5	471.5
77.5°	115.6	160.7	223.7	277.8	321.3	357.3	387.4	411.4	423.4	429.4	429.4
80°	94.6	138.1	195.2	244.7	283.8	316.8	346.8	367.9	379.9	379.9	370.9
82.5°	75.1	112.6	162.2	207.2	240.2	270.3	298.8	312.3	315.3	312.3	304.8
85°	55.6	85.6	126.1	160.7	190.7	211.7	229.7	238.7	240.2	237.2	231.2
87.5°	31.5	49.5	72.1	94.6	114.1	124.6	139.6	142.6	142.6	147.1	139.6
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°	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5
2.5°	555.5	557.0	557.0	561.5	561.5	563.0	561.5	561.5
5°	621.6	627.6	636.6	645.6	648.6	654.6	653.1	656.1
7.5°	701.2	713.2	726.7	738.7	744.7	750.7	752.2	756.7
10°	780.8	795.8	812.3	828.8	837.8	842.3	848.3	849.8
12.5°	849.8	872.3	888.9	906.9	918.9	924.9	930.9	933.9
15°	912.9	935.4	956.4	975.9	988.0	997.0	1003.0	1004.5
17.5°	960.9	986.5	1009.0	1030.0	1042.0	1052.5	1058.5	1061.5
20°	998.5	1027.0	1049.5	1070.5	1084.0	1096.1	1105.1	1106.6
22.5°	1025.5	1054.0	1079.5	1100.6	1117.1	1129.1	1136.6	1139.6
25°	1045.0	1075.0	1100.6	1121.6	1138.1	1151.6	1159.1	1162.1
27.5°	1054.0	1085.5	1112.6	1132.1	1148.6	1162.1	1171.1	1172.6
30°	1055.5	1085.5	1112.6	1133.6	1150.1	1163.6	1171.1	1174.1
32.5°	1045.0	1076.5	1103.6	1123.1	1139.6	1153.1	1160.6	1162.1
35°	1030.0	1058.5	1084.0	1103.6	1120.1	1132.1	1139.6	1142.6
37.5°	1007.5	1034.5	1058.5	1076.5	1091.6	1103.6	1111.1	1114.1
40°	980.4	1006.0	1028.5	1045.0	1058.5	1069.0	1075.0	1078.0
42.5°	948.9	972.9	994.0	1007.5	1021.0	1030.0	1034.5	1037.5
45°	915.9	938.4	954.9	966.9	978.9	986.5	991.0	992.5
47.5°	881.4	900.9	914.4	924.9	933.9	941.4	945.9	945.9
50°	846.8	863.3	873.8	884.4	891.9	896.4	899.4	900.9
52.5°	812.3	825.8	833.3	842.3	848.3	852.8	855.8	855.8
55°	776.2	786.8	792.8	800.3	806.3	809.3	812.3	810.8
57.5°	741.7	749.2	753.7	759.7	764.2	767.2	770.2	771.7
60°	705.7	711.7	713.2	719.2	723.7	726.7	728.2	729.7
62.5°	668.1	672.6	675.7	678.7	683.2	686.2	687.7	689.2
65°	630.6	633.6	633.6	639.6	644.1	645.6	647.1	648.6
67.5°	591.6	593.1	594.6	599.1	603.6	605.1	608.1	608.1
70°	552.5	552.5	554.0	558.5	563.0	564.5	567.5	569.0
72.5°	512.0	513.5	513.5	518.0	522.5	525.5	527.0	528.5
75°	470.0	470.0	471.5	473.0	474.5	476.0	476.0	479.0
77.5°	424.9	418.9	415.9	412.9	414.4	414.4	412.9	414.4
80°	361.8	354.3	349.8	348.3	349.8	348.3	348.3	349.8
82.5°	297.3	288.3	285.3	283.8	283.8	283.8	282.3	285.3
85°	223.7	217.7	214.7	211.7	213.2	213.2	211.7	213.2
87.5°	135.1	132.1	129.1	126.1	127.6	126.1	124.6	129.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)