

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: P188713

Luminaire Tested: **24SR-LD2-64-C-UNV-L835-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33587)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-64-C-UNV-L835-CD1-TB-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4276.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 2.07 / 1.9
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

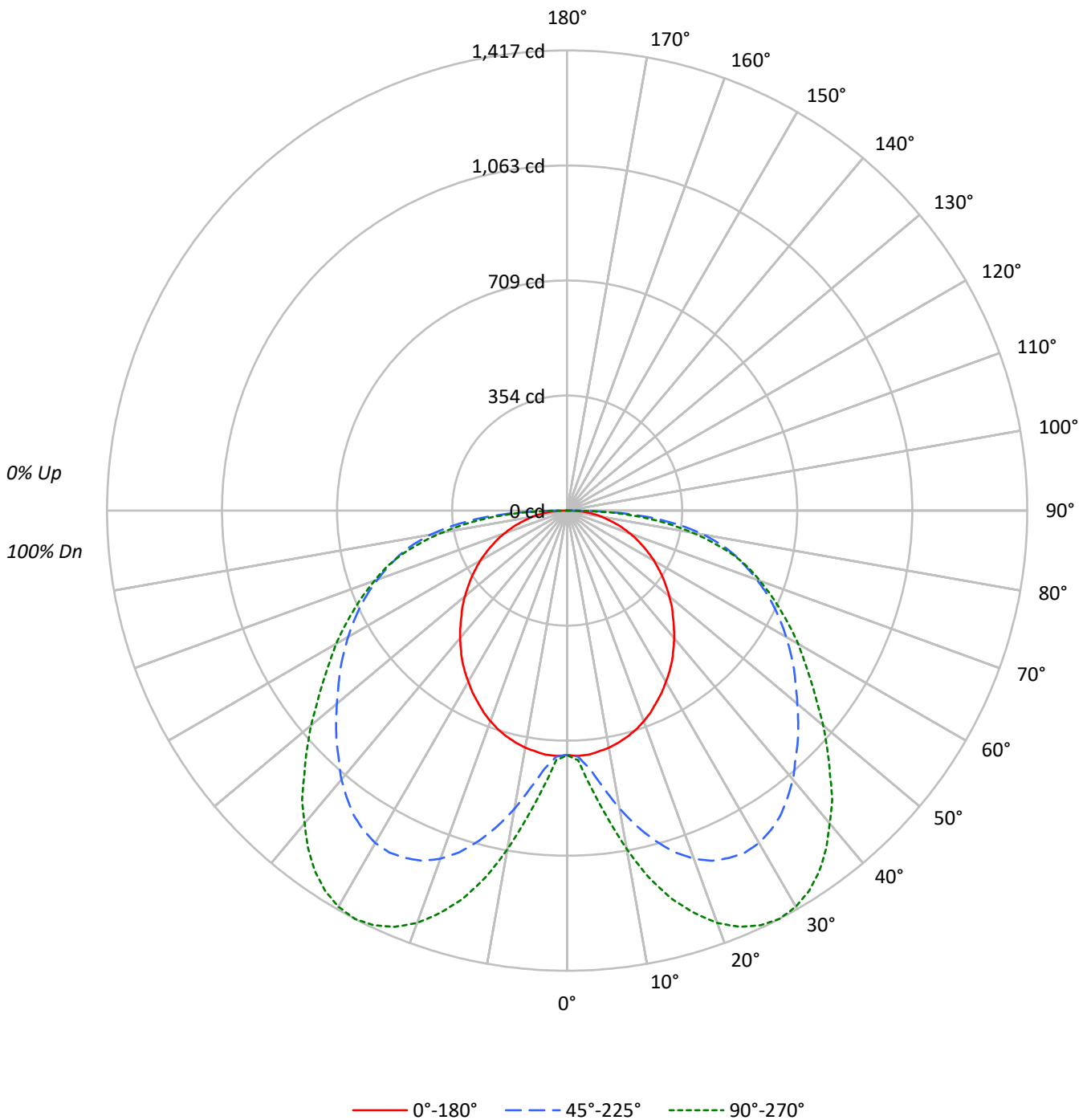
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	103	98	93	89	94	90	86	90	86	83	86	83	81	79
2	95	86	78	71	93	84	77	70	80	74	69	77	72	67	74	69	65	63
3	86	74	65	58	83	73	64	57	69	62	56	67	60	55	64	59	54	52
4	78	65	55	48	76	64	54	47	61	53	47	59	52	46	56	50	45	43
5	72	58	48	40	69	56	47	40	54	46	40	52	45	39	50	44	39	36
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31
7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1013	1013	1013
5°	1019	1077	1159
10°	1013	1273	1446
15°	1003	1468	1722
20°	989	1633	1935
25°	966	1752	2091
30°	945	1836	2189
35°	926	1882	2225
40°	901	1900	2209
45°	876	1911	2177
50°	860	1937	2154
55°	844	2001	2152
60°	832	2097	2212
65°	816	2240	2308
70°	808	2445	2483
75°	803	2786	2760
80°	828	3312	3031
85°	914	4111	3552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.9
10°-20°	289.6	6.8
20°-30°	515.8	12.1
30°-40°	668.8	15.6
40°-50°	713.2	16.7
50°-60°	686.0	16.0
60°-70°	613.9	14.4
70°-80°	483.3	11.3
80°-90°	225.3	5.3
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°	885.6	20.7
0°-40°	1554.4	36.4
0°-60°	2953.5	69.1
0°-90°	4276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	754	764	797	840	858	72
15°	720	856	1054	1191	1236	203
25°	651	910	1180	1358	1409	300
35°	564	865	1146	1310	1354	352
45°	460	755	1004	1121	1144	356
55°	360	648	853	909	917	322
65°	256	550	704	718	725	254
75°	154	423	536	528	531	163
85°	59	224	266	237	230	62
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°	752.9	752.9	752.9	752.9	752.9	752.9	752.9	752.9	752.9	752.9	752.9
2.5°	756.1	756.1	754.5	754.5	756.1	756.1	756.1	756.1	757.8	757.8	759.4
5°	754.5	752.9	752.9	756.1	761.1	766.0	770.9	779.2	785.7	797.2	807.1
7.5°	747.9	747.9	751.2	759.4	770.9	787.4	805.5	825.2	843.3	861.3	882.7
10°	741.3	741.3	749.6	764.4	787.4	817.0	846.5	876.1	904.1	932.0	955.0
12.5°	731.5	733.1	746.3	772.6	810.4	851.5	889.3	927.1	964.9	996.1	1030.7
15°	720.0	723.3	743.0	782.4	831.8	881.1	927.1	973.1	1015.9	1053.7	1089.8
17.5°	706.8	711.8	739.7	790.7	848.2	904.1	961.6	1014.2	1060.2	1103.0	1144.1
20°	690.4	698.6	736.4	797.2	861.3	925.4	986.3	1042.2	1094.8	1140.8	1186.8
22.5°	672.3	682.2	729.8	798.9	869.6	938.6	1006.0	1063.5	1119.4	1167.1	1214.8
25°	650.9	665.7	723.3	797.2	872.8	946.8	1015.9	1075.0	1132.6	1180.2	1232.8
27.5°	631.2	647.7	711.8	790.7	869.6	946.8	1015.9	1078.3	1137.5	1186.8	1237.8
30°	608.2	629.6	700.3	780.8	861.3	938.6	1009.3	1071.7	1129.3	1181.9	1234.5
32.5°	586.8	609.8	682.2	764.4	846.5	923.8	996.1	1057.0	1114.5	1167.1	1218.0
35°	563.8	586.8	662.4	747.9	826.8	904.1	973.1	1035.6	1091.5	1145.7	1193.4
37.5°	537.5	563.8	641.1	724.9	802.2	879.4	946.8	1007.6	1063.5	1114.5	1160.5
40°	512.9	540.8	616.4	700.3	777.5	851.5	917.2	974.8	1029.0	1081.6	1122.7
42.5°	486.6	516.1	593.4	674.0	749.6	820.2	882.7	941.9	994.5	1040.5	1081.6
45°	460.3	493.1	568.7	647.7	720.0	790.7	853.1	907.4	958.3	1004.4	1038.9
47.5°	437.2	470.1	542.4	621.4	693.7	761.1	821.9	874.5	923.8	964.9	999.4
50°	410.9	443.8	517.8	595.0	665.7	733.1	790.7	841.6	887.6	925.4	958.3
52.5°	384.6	420.8	493.1	570.4	641.1	705.2	762.7	812.0	853.1	887.6	915.6
55°	360.0	396.2	470.1	545.7	616.4	680.5	734.8	782.4	821.9	853.1	874.5
57.5°	333.7	373.1	448.8	524.4	593.4	654.2	708.5	752.9	789.0	815.3	833.4
60°	309.0	350.1	427.4	501.4	570.4	631.2	682.2	724.9	756.1	779.2	793.9
62.5°	282.7	327.1	404.4	478.3	545.7	606.6	654.2	693.7	723.3	741.3	751.2
65°	256.4	304.1	381.4	455.3	521.1	578.6	624.6	660.8	687.1	703.5	711.8
67.5°	231.8	281.1	358.3	430.7	494.8	549.0	593.4	627.9	650.9	664.1	667.4
70°	205.5	256.4	333.7	404.4	466.8	517.8	560.5	590.1	611.5	621.4	624.6
72.5°	180.8	231.8	307.4	376.4	435.6	483.3	524.4	554.0	572.0	578.6	578.6
75°	154.5	205.5	279.4	345.2	399.4	447.1	484.9	511.2	527.7	535.9	532.6
77.5°	128.2	179.2	249.9	310.7	360.0	402.7	440.5	465.2	481.6	486.6	483.3
80°	106.8	152.9	215.3	271.2	317.3	356.7	391.2	415.9	430.7	427.4	419.2
82.5°	82.2	124.9	179.2	226.8	267.9	305.7	338.6	358.3	361.6	355.1	345.2
85°	59.2	92.1	136.4	174.2	210.4	238.3	261.4	274.5	274.5	266.3	259.7
87.5°	34.5	54.2	78.9	105.2	121.6	139.7	157.8	161.1	161.1	161.1	152.9
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°	752.9	752.9	752.9	752.9	752.9	752.9	752.9	752.9
2.5°	764.4	766.0	767.6	769.3	770.9	770.9	770.9	769.3
5°	817.0	826.8	835.0	844.9	848.2	851.5	854.8	858.1
7.5°	900.8	913.9	927.1	940.2	948.5	958.3	955.0	955.0
10°	981.3	1006.0	1020.8	1037.2	1045.4	1055.3	1060.2	1058.6
12.5°	1060.2	1088.2	1109.6	1124.3	1137.5	1147.4	1150.6	1155.6
15°	1127.6	1155.6	1181.9	1200.0	1216.4	1226.3	1232.8	1236.1
17.5°	1183.5	1211.5	1241.1	1264.1	1278.9	1292.0	1295.3	1298.6
20°	1224.6	1260.8	1288.7	1313.4	1329.8	1343.0	1349.5	1351.2
22.5°	1257.5	1292.0	1323.2	1347.9	1366.0	1380.8	1387.4	1387.4
25°	1275.6	1311.7	1344.6	1370.9	1389.0	1402.1	1408.7	1408.7
27.5°	1282.2	1320.0	1351.2	1377.5	1397.2	1410.4	1415.3	1416.9
30°	1277.2	1315.0	1346.3	1370.9	1390.6	1402.1	1407.1	1408.7
32.5°	1260.8	1298.6	1328.2	1351.2	1369.3	1382.4	1387.4	1387.4
35°	1234.5	1269.0	1298.6	1321.6	1338.0	1347.9	1354.5	1354.5
37.5°	1200.0	1234.5	1260.8	1280.5	1295.3	1306.8	1310.1	1310.1
40°	1160.5	1190.1	1214.8	1234.5	1247.6	1255.9	1259.1	1257.5
42.5°	1116.1	1144.1	1163.8	1180.2	1191.7	1200.0	1204.9	1208.2
45°	1070.1	1096.4	1114.5	1127.6	1135.9	1140.8	1145.7	1144.1
47.5°	1029.0	1045.4	1061.9	1071.7	1080.0	1084.9	1086.5	1086.5
50°	981.3	996.1	1009.3	1017.5	1022.4	1025.7	1025.7	1029.0
52.5°	933.7	946.8	956.7	964.9	968.2	969.8	971.5	969.8
55°	890.9	899.1	905.7	912.3	915.6	917.2	920.5	917.2
57.5°	846.5	853.1	861.3	863.0	866.3	866.3	867.9	866.3
60°	802.2	807.1	810.4	812.0	817.0	818.6	818.6	821.9
62.5°	757.8	759.4	764.4	766.0	767.6	770.9	774.2	772.6
65°	713.4	715.0	716.7	720.0	723.3	726.6	726.6	724.9
67.5°	667.4	669.0	670.7	674.0	677.2	677.2	678.9	678.9
70°	623.0	623.0	624.6	626.3	629.6	631.2	632.9	631.2
72.5°	577.0	577.0	577.0	578.6	580.3	583.5	585.2	585.2
75°	529.3	529.3	529.3	527.7	529.3	532.6	530.9	530.9
77.5°	476.7	471.8	466.8	463.5	465.2	463.5	463.5	463.5
80°	410.9	402.7	396.2	392.9	391.2	392.9	391.2	391.2
82.5°	338.6	330.4	323.8	318.9	320.5	317.3	318.9	315.6
85°	251.5	244.9	238.3	235.1	236.7	236.7	235.1	230.1
87.5°	147.9	139.7	138.1	136.4	138.1	136.4	131.5	133.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)