

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: P188705

Luminaire Tested: **24SR-LD2-53-C-UNV-L850-CD1-TB-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188705  
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-LD2-53-C-UNV-L850-CD1-TB-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

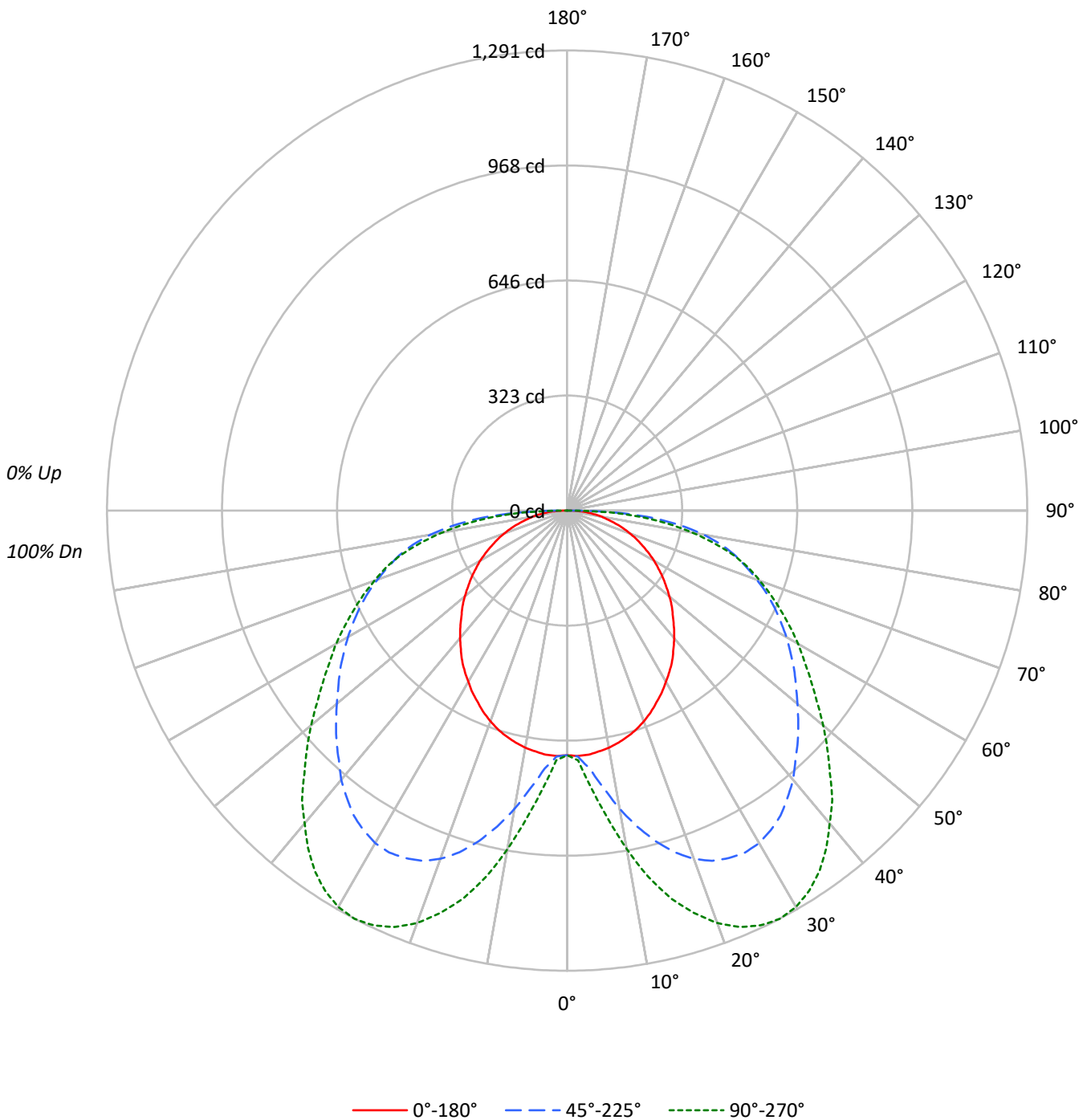
Lumens per Lamp: N/A  
Luminaire Lumens: 3897.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 2.07 / 1.9  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 43.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	923	923	923
5°	929	981	1056
10°	923	1160	1318
15°	914	1338	1569
20°	901	1489	1763
25°	881	1597	1906
30°	861	1673	1995
35°	844	1715	2028
40°	821	1731	2013
45°	798	1742	1984
50°	784	1765	1963
55°	770	1824	1961
60°	758	1911	2016
65°	744	2041	2103
70°	737	2228	2263
75°	732	2539	2516
80°	755	3018	2762
85°	832	3747	3237



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	1.9
10°-20°	263.9	6.8
20°-30°	470.1	12.1
30°-40°	609.5	15.6
40°-50°	650.0	16.7
50°-60°	625.2	16.0
60°-70°	559.4	14.4
70°-80°	440.5	11.3
80°-90°	205.4	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°	807.1	20.7
0°-40°	1416.6	36.4
0°-60°	2691.7	69.1
0°-90°	3897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	688	696	727	766	782	65
15°	656	780	960	1085	1127	185
25°	593	829	1076	1237	1284	274
35°	514	789	1044	1194	1234	321
45°	420	688	915	1022	1043	325
55°	328	591	778	828	836	293
65°	234	501	641	655	661	232
75°	141	386	488	482	484	149
85°	54	204	243	216	210	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°	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1
2.5°	689.1	689.1	687.6	687.6	689.1	689.1	689.1	689.1	690.6	690.6	692.1
5°	687.6	686.1	686.1	689.1	693.6	698.1	702.6	710.1	716.1	726.6	735.6
7.5°	681.6	681.6	684.6	692.1	702.6	717.6	734.1	752.0	768.5	785.0	804.5
10°	675.6	675.6	683.1	696.6	717.6	744.5	771.5	798.5	823.9	849.4	870.4
12.5°	666.6	668.1	680.1	704.1	738.6	776.0	810.5	844.9	879.4	907.8	939.3
15°	656.2	659.2	677.1	713.1	758.0	803.0	844.9	886.9	925.8	960.3	993.2
17.5°	644.2	648.7	674.1	720.6	773.0	823.9	876.4	924.3	966.3	1005.2	1042.7
20°	629.2	636.7	671.1	726.6	785.0	843.4	898.9	949.8	997.7	1039.7	1081.6
22.5°	612.7	621.7	665.2	728.1	792.5	855.4	916.8	969.3	1020.2	1063.6	1107.1
25°	593.2	606.7	659.2	726.6	795.5	862.9	925.8	979.7	1032.2	1075.6	1123.6
27.5°	575.3	590.2	648.7	720.6	792.5	862.9	925.8	982.7	1036.7	1081.6	1128.1
30°	554.3	573.8	638.2	711.6	785.0	855.4	919.8	976.8	1029.2	1077.1	1125.1
32.5°	534.8	555.8	621.7	696.6	771.5	841.9	907.8	963.3	1015.7	1063.6	1110.1
35°	513.8	534.8	603.7	681.6	753.5	823.9	886.9	943.8	994.7	1044.2	1087.6
37.5°	489.9	513.8	584.3	660.7	731.1	801.5	862.9	918.3	969.3	1015.7	1057.6
40°	467.4	492.9	561.8	638.2	708.6	776.0	835.9	888.4	937.8	985.7	1023.2
42.5°	443.4	470.4	540.8	614.2	683.1	747.5	804.5	858.4	906.3	948.3	985.7
45°	419.5	449.4	518.3	590.2	656.2	720.6	777.5	826.9	873.4	915.3	946.8
47.5°	398.5	428.5	494.4	566.3	632.2	693.6	749.0	797.0	841.9	879.4	910.8
50°	374.5	404.5	471.9	542.3	606.7	668.1	720.6	767.0	809.0	843.4	873.4
52.5°	350.6	383.5	449.4	519.8	584.3	642.7	695.1	740.1	777.5	809.0	834.4
55°	328.1	361.0	428.5	497.4	561.8	620.2	669.6	713.1	749.0	777.5	797.0
57.5°	304.1	340.1	409.0	477.9	540.8	596.2	645.7	686.1	719.1	743.1	759.5
60°	281.6	319.1	389.5	456.9	519.8	575.3	621.7	660.7	689.1	710.1	723.6
62.5°	257.7	298.1	368.5	435.9	497.4	552.8	596.2	632.2	659.2	675.6	684.6
65°	233.7	277.1	347.6	415.0	474.9	527.3	569.3	602.2	626.2	641.2	648.7
67.5°	211.2	256.2	326.6	392.5	450.9	500.4	540.8	572.3	593.2	605.2	608.2
70°	187.3	233.7	304.1	368.5	425.5	471.9	510.8	537.8	557.3	566.3	569.3
72.5°	164.8	211.2	280.1	343.1	397.0	440.4	477.9	504.9	521.3	527.3	527.3
75°	140.8	187.3	254.7	314.6	364.0	407.5	441.9	465.9	480.9	488.4	485.4
77.5°	116.9	163.3	227.7	283.1	328.1	367.0	401.5	424.0	438.9	443.4	440.4
80°	97.4	139.3	196.2	247.2	289.1	325.1	356.5	379.0	392.5	389.5	382.0
82.5°	74.9	113.9	163.3	206.7	244.2	278.6	308.6	326.6	329.6	323.6	314.6
85°	53.9	83.9	124.3	158.8	191.8	217.2	238.2	250.2	250.2	242.7	236.7
87.5°	31.5	49.4	71.9	95.9	110.9	127.3	143.8	146.8	146.8	146.8	139.3
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°	686.1	686.1	686.1	686.1	686.1	686.1	686.1	686.1
2.5°	696.6	698.1	699.6	701.1	702.6	702.6	702.6	701.1
5°	744.5	753.5	761.0	770.0	773.0	776.0	779.0	782.0
7.5°	821.0	832.9	844.9	856.9	864.4	873.4	870.4	870.4
10°	894.4	916.8	930.3	945.3	952.8	961.8	966.3	964.8
12.5°	966.3	991.7	1011.2	1024.7	1036.7	1045.7	1048.7	1053.2
15°	1027.7	1053.2	1077.1	1093.6	1108.6	1117.6	1123.6	1126.6
17.5°	1078.6	1104.1	1131.1	1152.0	1165.5	1177.5	1180.5	1183.5
20°	1116.1	1149.0	1174.5	1197.0	1212.0	1223.9	1229.9	1231.4
22.5°	1146.0	1177.5	1206.0	1228.4	1244.9	1258.4	1264.4	1264.4
25°	1162.5	1195.5	1225.4	1249.4	1265.9	1277.9	1283.9	1283.9
27.5°	1168.5	1203.0	1231.4	1255.4	1273.4	1285.4	1289.9	1291.4
30°	1164.0	1198.5	1226.9	1249.4	1267.4	1277.9	1282.4	1283.9
32.5°	1149.0	1183.5	1210.5	1231.4	1247.9	1259.9	1264.4	1264.4
35°	1125.1	1156.5	1183.5	1204.5	1219.4	1228.4	1234.4	1234.4
37.5°	1093.6	1125.1	1149.0	1167.0	1180.5	1191.0	1194.0	1194.0
40°	1057.6	1084.6	1107.1	1125.1	1137.0	1144.5	1147.5	1146.0
42.5°	1017.2	1042.7	1060.6	1075.6	1086.1	1093.6	1098.1	1101.1
45°	975.3	999.2	1015.7	1027.7	1035.2	1039.7	1044.2	1042.7
47.5°	937.8	952.8	967.8	976.8	984.2	988.7	990.2	990.2
50°	894.4	907.8	919.8	927.3	931.8	934.8	934.8	937.8
52.5°	850.9	862.9	871.9	879.4	882.4	883.9	885.4	883.9
55°	812.0	819.5	825.4	831.4	834.4	835.9	838.9	835.9
57.5°	771.5	777.5	785.0	786.5	789.5	789.5	791.0	789.5
60°	731.1	735.6	738.6	740.1	744.5	746.0	746.0	749.0
62.5°	690.6	692.1	696.6	698.1	699.6	702.6	705.6	704.1
65°	650.2	651.7	653.2	656.2	659.2	662.2	662.2	660.7
67.5°	608.2	609.7	611.2	614.2	617.2	617.2	618.7	618.7
70°	567.8	567.8	569.3	570.8	573.8	575.3	576.8	575.3
72.5°	525.8	525.8	525.8	527.3	528.8	531.8	533.3	533.3
75°	482.4	482.4	482.4	480.9	482.4	485.4	483.9	483.9
77.5°	434.4	430.0	425.5	422.5	424.0	422.5	422.5	422.5
80°	374.5	367.0	361.0	358.0	356.5	358.0	356.5	356.5
82.5°	308.6	301.1	295.1	290.6	292.1	289.1	290.6	287.6
85°	229.2	223.2	217.2	214.2	215.7	215.7	214.2	209.7
87.5°	134.8	127.3	125.8	124.3	125.8	124.3	119.8	121.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)