

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: P188684

Luminaire Tested: **24SR-LD2-34-C-UNV-L840-CD1-TB-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188684  
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-LD2-34-C-UNV-L840-CD1-TB-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

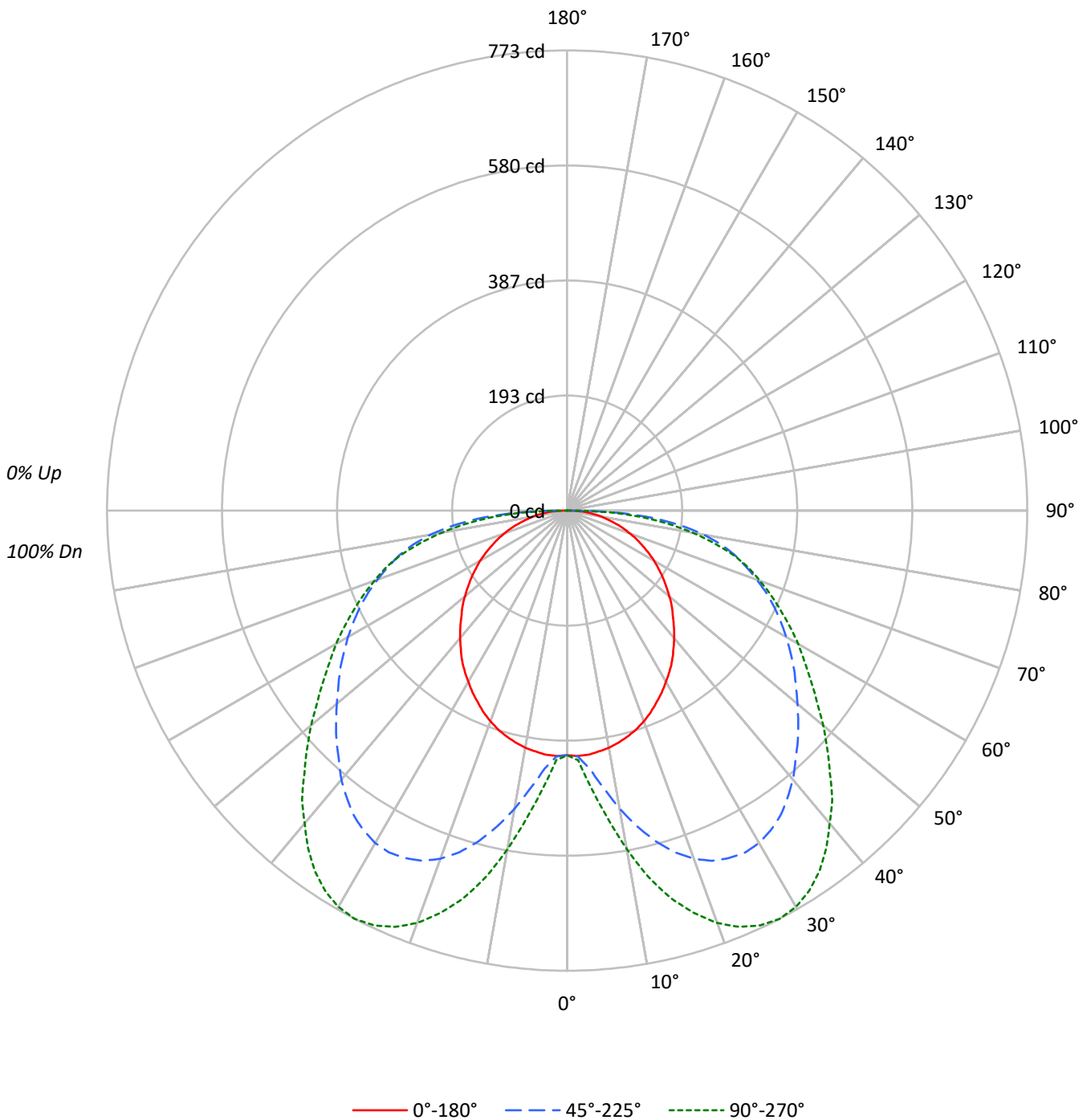
Lumens per Lamp: N/A  
Luminaire Lumens: 2333.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 2.07 / 1.9  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	553	553	553
5°	556	588	632
10°	553	695	789
15°	547	801	939
20°	539	891	1056
25°	527	956	1141
30°	515	1002	1194
35°	505	1027	1214
40°	491	1036	1205
45°	478	1043	1188
50°	469	1057	1175
55°	461	1092	1174
60°	454	1144	1207
65°	445	1222	1259
70°	441	1334	1355
75°	438	1520	1506
80°	452	1807	1654
85°	499	2243	1939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	1.9
10°-20°	158.0	6.8
20°-30°	281.4	12.1
30°-40°	364.9	15.6
40°-50°	389.1	16.7
50°-60°	374.3	16.0
60°-70°	334.9	14.4
70°-80°	263.7	11.3
80°-90°	122.9	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°	483.2	20.7
0°-40°	848.1	36.4
0°-60°	1611.4	69.1
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	412	417	435	458	468	39
15°	393	467	575	650	674	111
25°	355	496	644	741	769	164
35°	308	472	625	715	739	192
45°	251	412	548	612	624	194
55°	196	354	466	496	500	176
65°	140	300	384	392	396	139
75°	84	231	292	288	290	89
85°	32	122	145	129	126	34
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°	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8
2.5°	412.6	412.6	411.7	411.7	412.6	412.6	412.6	412.6	413.4	413.4	414.3
5°	411.7	410.8	410.8	412.6	415.2	417.9	420.6	425.1	428.7	435.0	440.4
7.5°	408.1	408.1	409.9	414.3	420.6	429.6	439.5	450.2	460.1	470.0	481.6
10°	404.5	404.5	409.0	417.0	429.6	445.7	461.9	478.0	493.3	508.5	521.1
12.5°	399.1	400.0	407.2	421.5	442.1	464.6	485.2	505.8	526.5	543.5	562.3
15°	392.8	394.6	405.4	426.9	453.8	480.7	505.8	530.9	554.3	574.9	594.6
17.5°	385.6	388.3	403.6	431.4	462.8	493.3	524.7	553.4	578.5	601.8	624.2
20°	376.7	381.2	401.8	435.0	470.0	504.9	538.1	568.6	597.3	622.4	647.5
22.5°	366.8	372.2	398.2	435.9	474.4	512.1	548.9	580.3	610.8	636.8	662.8
25°	355.2	363.2	394.6	435.0	476.2	516.6	554.3	586.5	617.9	643.9	672.6
27.5°	344.4	353.4	388.3	431.4	474.4	516.6	554.3	588.3	620.6	647.5	675.3
30°	331.8	343.5	382.1	426.0	470.0	512.1	550.7	584.7	616.1	644.8	673.5
32.5°	320.2	332.7	372.2	417.0	461.9	504.0	543.5	576.7	608.1	636.8	664.6
35°	307.6	320.2	361.4	408.1	451.1	493.3	530.9	565.0	595.5	625.1	651.1
37.5°	293.3	307.6	349.8	395.5	437.7	479.8	516.6	549.8	580.3	608.1	633.2
40°	279.8	295.1	336.3	382.1	424.2	464.6	500.4	531.8	561.4	590.1	612.6
42.5°	265.5	281.6	323.8	367.7	409.0	447.5	481.6	513.9	542.6	567.7	590.1
45°	251.1	269.1	310.3	353.4	392.8	431.4	465.5	495.1	522.9	548.0	566.8
47.5°	238.6	256.5	296.0	339.0	378.5	415.2	448.4	477.1	504.0	526.5	545.3
50°	224.2	242.2	282.5	324.7	363.2	400.0	431.4	459.2	484.3	504.9	522.9
52.5°	209.9	229.6	269.1	311.2	349.8	384.8	416.1	443.0	465.5	484.3	499.5
55°	196.4	216.1	256.5	297.8	336.3	371.3	400.9	426.9	448.4	465.5	477.1
57.5°	182.1	203.6	244.8	286.1	323.8	356.9	386.5	410.8	430.5	444.8	454.7
60°	168.6	191.0	233.2	273.5	311.2	344.4	372.2	395.5	412.6	425.1	433.2
62.5°	154.3	178.5	220.6	261.0	297.8	330.9	356.9	378.5	394.6	404.5	409.9
65°	139.9	165.9	208.1	248.4	284.3	315.7	340.8	360.5	374.9	383.9	388.3
67.5°	126.5	153.4	195.5	235.0	270.0	299.5	323.8	342.6	355.2	362.3	364.1
70°	112.1	139.9	182.1	220.6	254.7	282.5	305.8	322.0	333.6	339.0	340.8
72.5°	98.7	126.5	167.7	205.4	237.7	263.7	286.1	302.2	312.1	315.7	315.7
75°	84.3	112.1	152.5	188.3	217.9	243.9	264.6	278.9	287.9	292.4	290.6
77.5°	70.0	97.8	136.3	169.5	196.4	219.7	240.4	253.8	262.8	265.5	263.7
80°	58.3	83.4	117.5	148.0	173.1	194.6	213.5	226.9	235.0	233.2	228.7
82.5°	44.8	68.2	97.8	123.8	146.2	166.8	184.8	195.5	197.3	193.7	188.3
85°	32.3	50.2	74.4	95.1	114.8	130.0	142.6	149.8	149.8	145.3	141.7
87.5°	18.8	29.6	43.0	57.4	66.4	76.2	86.1	87.9	87.9	87.9	83.4
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°	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8
2.5°	417.0	417.9	418.8	419.7	420.6	420.6	420.6	419.7
5°	445.7	451.1	455.6	461.0	462.8	464.6	466.4	468.2
7.5°	491.5	498.7	505.8	513.0	517.5	522.9	521.1	521.1
10°	535.4	548.9	556.9	565.9	570.4	575.8	578.5	577.6
12.5°	578.5	593.7	605.4	613.4	620.6	626.0	627.8	630.5
15°	615.2	630.5	644.8	654.7	663.7	669.1	672.6	674.4
17.5°	645.7	661.0	677.1	689.7	697.8	704.9	706.7	708.5
20°	668.2	687.9	703.1	716.6	725.6	732.7	736.3	737.2
22.5°	686.1	704.9	722.0	735.4	745.3	753.4	756.9	756.9
25°	696.0	715.7	733.6	748.0	757.8	765.0	768.6	768.6
27.5°	699.5	720.2	737.2	751.6	762.3	769.5	772.2	773.1
30°	696.9	717.5	734.5	748.0	758.7	765.0	767.7	768.6
32.5°	687.9	708.5	724.7	737.2	747.1	754.3	756.9	756.9
35°	673.5	692.4	708.5	721.1	730.0	735.4	739.0	739.0
37.5°	654.7	673.5	687.9	698.6	706.7	713.0	714.8	714.8
40°	633.2	649.3	662.8	673.5	680.7	685.2	687.0	686.1
42.5°	609.0	624.2	635.0	643.9	650.2	654.7	657.4	659.2
45°	583.9	598.2	608.1	615.2	619.7	622.4	625.1	624.2
47.5°	561.4	570.4	579.4	584.7	589.2	591.9	592.8	592.8
50°	535.4	543.5	550.7	555.2	557.8	559.6	559.6	561.4
52.5°	509.4	516.6	522.0	526.5	528.2	529.1	530.0	529.1
55°	486.1	490.6	494.2	497.8	499.5	500.4	502.2	500.4
57.5°	461.9	465.5	470.0	470.8	472.6	472.6	473.5	472.6
60°	437.7	440.4	442.1	443.0	445.7	446.6	446.6	448.4
62.5°	413.4	414.3	417.0	417.9	418.8	420.6	422.4	421.5
65°	389.2	390.1	391.0	392.8	394.6	396.4	396.4	395.5
67.5°	364.1	365.0	365.9	367.7	369.5	369.5	370.4	370.4
70°	339.9	339.9	340.8	341.7	343.5	344.4	345.3	344.4
72.5°	314.8	314.8	314.8	315.7	316.6	318.4	319.3	319.3
75°	288.8	288.8	288.8	287.9	288.8	290.6	289.7	289.7
77.5°	260.1	257.4	254.7	252.9	253.8	252.9	252.9	252.9
80°	224.2	219.7	216.1	214.3	213.5	214.3	213.5	213.5
82.5°	184.8	180.3	176.7	174.0	174.9	173.1	174.0	172.2
85°	137.2	133.6	130.0	128.3	129.1	129.1	128.3	125.6
87.5°	80.7	76.2	75.3	74.4	75.3	74.4	71.7	72.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)