

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: P188421

Luminaire Tested: **22SR-LD2-25-C-UNV-L840-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33586)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-25-C-UNV-L840-CD1-TB-U
Description: METALUX 2X2 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: 1630.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 2.03 / 1.86
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

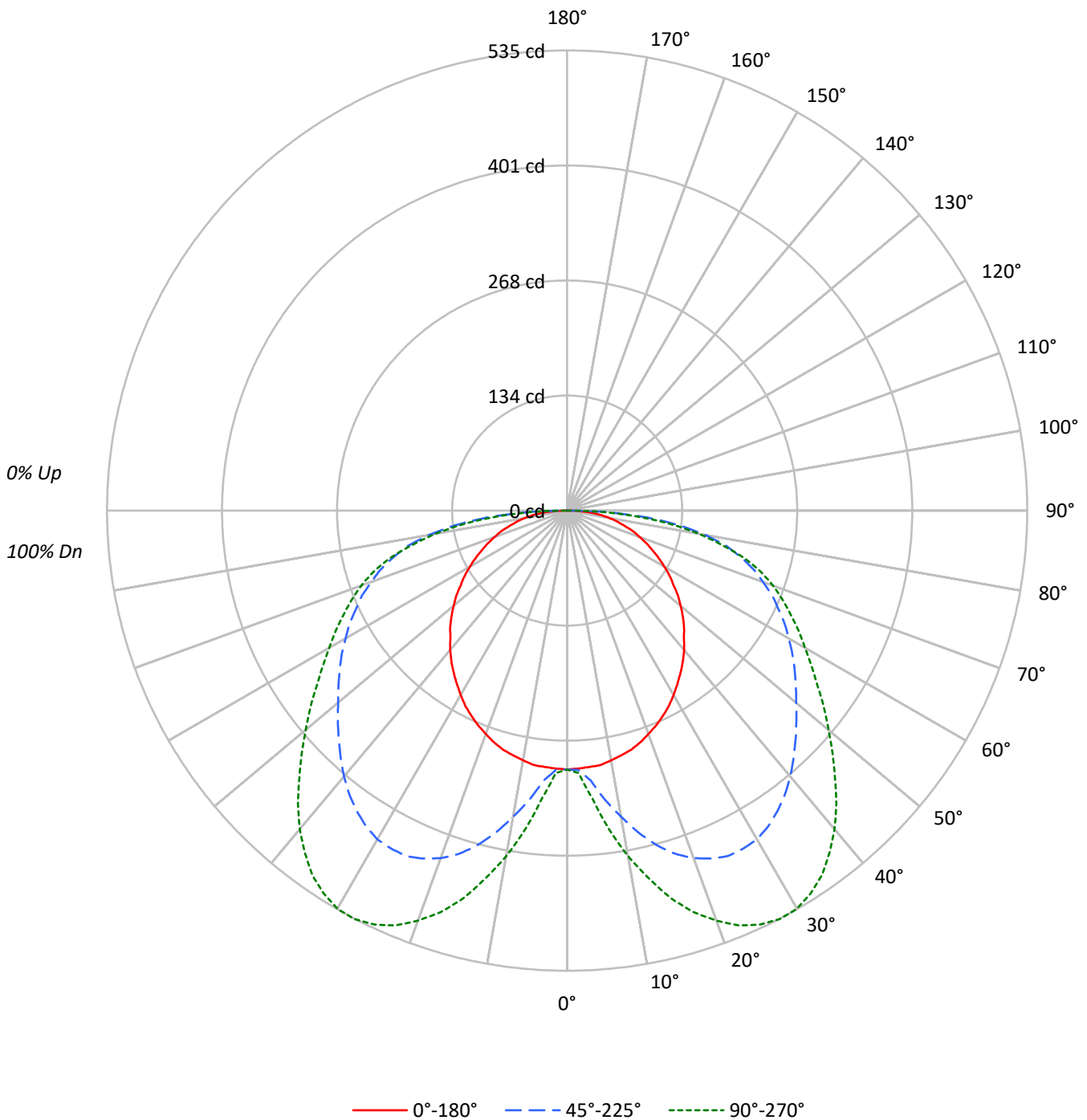
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	95	91	104	98	93	89	94	90	86		90	87	84		86	84	81	79
2	95	86	78	71	93	84	77	70	80	74	69		77	72	67		74	69	66	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°	810	810	810
5°	808	851	908
10°	806	988	1115
15°	802	1122	1300
20°	792	1231	1452
25°	782	1316	1576
30°	769	1372	1661
35°	755	1401	1698
40°	743	1418	1698
45°	731	1429	1676
50°	720	1455	1660
55°	708	1515	1667
60°	703	1601	1719
65°	699	1726	1827
70°	704	1906	2002
75°	721	2171	2217
80°	775	2515	2407
85°	840	2899	2628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	1.9
10°-20°	110.8	6.8
20°-30°	194.8	12.0
30°-40°	252.8	15.5
40°-50°	271.4	16.7
50°-60°	263.3	16.2
60°-70°	237.9	14.6
70°-80°	187.4	11.5
80°-90°	80.0	4.9
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°	337.2	20.7
0°-40°	590.0	36.2
0°-60°	1124.7	69.0
0°-90°	1630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	299	302	315	331	336	28
15°	288	333	403	451	467	81
25°	263	344	443	508	531	121
35°	230	325	426	494	517	144
45°	192	285	376	426	440	148
55°	151	244	323	351	355	136
65°	110	202	271	284	287	109
75°	69	152	209	212	213	74
85°	27	68	94	88	85	29
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°	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0
2.5°	300.1	300.1	300.1	300.1	301.0	300.1	301.0	301.9	301.9	301.9	302.7
5°	299.2	300.1	300.1	300.1	301.0	302.7	304.5	308.0	312.4	315.0	318.5
7.5°	298.4	298.4	298.4	300.1	303.6	309.8	316.8	324.7	332.6	339.6	346.6
10°	294.8	295.7	296.6	301.9	309.8	320.3	331.7	343.1	351.9	361.5	371.2
12.5°	291.3	292.2	295.7	304.5	317.7	331.7	344.9	358.9	372.9	383.5	395.8
15°	287.8	288.7	294.0	308.0	324.7	340.5	357.1	373.8	387.9	402.8	415.9
17.5°	282.6	283.4	292.2	310.6	329.1	348.4	366.8	386.1	402.8	418.6	432.6
20°	276.4	278.2	289.6	310.6	331.7	352.8	373.8	394.0	412.4	430.0	446.6
22.5°	270.3	272.9	286.9	310.6	333.5	356.3	379.1	400.1	419.4	437.9	455.4
25°	263.3	265.9	283.4	308.9	332.6	356.3	380.8	402.8	423.0	443.1	460.7
27.5°	256.2	259.7	279.0	304.5	329.9	354.5	379.1	401.9	423.0	443.1	462.4
30°	247.5	251.8	273.8	300.1	325.6	351.0	375.6	399.3	420.3	441.4	459.8
32.5°	238.7	243.9	266.8	293.1	319.4	344.9	369.4	393.1	414.2	435.2	454.5
35°	229.9	236.0	259.7	286.1	312.4	337.0	361.5	385.2	406.3	426.5	445.8
37.5°	221.1	227.3	251.0	277.3	303.6	328.2	351.9	374.7	396.6	415.9	434.4
40°	211.5	218.5	243.1	268.5	294.0	318.5	341.3	364.2	384.3	403.7	420.3
42.5°	200.9	209.7	233.4	258.9	283.4	307.1	329.9	351.9	372.1	389.6	405.4
45°	192.2	200.1	223.8	249.2	272.9	296.6	319.4	340.5	358.9	375.6	390.5
47.5°	182.5	191.3	214.1	239.6	263.3	285.2	308.0	327.3	345.7	361.5	375.6
50°	172.0	182.5	204.5	229.0	253.6	275.5	297.5	315.9	333.5	347.5	360.7
52.5°	162.3	172.9	195.7	219.4	243.1	265.9	285.2	304.5	321.2	335.2	346.6
55°	150.9	164.1	186.0	209.7	232.5	255.4	275.5	294.0	309.8	322.9	333.5
57.5°	141.3	154.4	176.4	200.1	222.9	244.8	265.0	282.6	298.4	310.6	319.4
60°	130.7	144.8	166.7	190.4	212.4	234.3	254.5	272.0	286.1	297.5	306.2
62.5°	120.2	135.1	157.1	179.9	201.8	223.8	243.9	260.6	273.8	285.2	292.2
65°	109.7	124.6	147.4	169.4	191.3	213.2	231.7	248.3	261.5	271.1	278.2
67.5°	100.0	115.0	136.9	158.0	180.8	200.9	220.3	236.0	248.3	258.0	263.3
70°	89.5	105.3	125.5	146.5	168.5	188.7	207.1	222.0	234.3	242.2	247.5
72.5°	80.7	94.8	114.1	134.3	155.3	175.5	193.1	208.8	219.4	227.3	230.8
75°	69.3	84.2	102.7	122.0	142.2	161.5	178.1	192.2	202.7	208.8	212.4
77.5°	59.7	74.6	91.3	107.9	127.2	145.7	161.5	174.6	184.3	189.5	191.3
80°	50.0	62.3	77.2	93.0	109.7	126.4	141.3	152.7	160.6	162.3	163.2
82.5°	39.5	49.1	61.4	75.5	89.5	102.7	115.8	123.7	130.7	131.6	131.6
85°	27.2	33.3	42.1	51.8	62.3	73.7	83.4	89.5	92.1	93.9	93.9
87.5°	14.0	16.7	21.1	24.6	30.7	38.6	43.9	44.8	47.4	48.3	50.0
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°	301.0	301.0	301.0	301.0	301.0	301.0	301.0	301.0
2.5°	303.6	303.6	304.5	304.5	304.5	305.4	305.4	305.4
5°	322.9	325.6	329.1	332.6	333.5	336.1	336.1	336.1
7.5°	351.0	356.3	361.5	365.9	369.4	370.3	372.1	373.8
10°	380.0	386.1	394.0	398.4	401.0	404.5	405.4	408.0
12.5°	405.4	414.2	421.2	428.2	432.6	436.1	437.0	437.9
15°	426.5	437.9	447.5	454.5	458.9	462.4	466.0	466.8
17.5°	445.8	457.2	466.8	474.7	481.7	486.1	487.9	489.6
20°	460.7	473.0	483.5	492.3	499.3	503.7	506.3	507.2
22.5°	471.2	484.4	495.8	505.4	511.6	517.7	520.4	522.1
25°	477.4	491.4	503.7	513.3	521.2	526.5	530.0	530.9
27.5°	479.1	494.0	506.3	516.8	524.7	530.0	533.5	535.3
30°	477.4	492.3	505.4	516.0	523.9	529.1	532.6	534.4
32.5°	471.2	486.1	499.3	509.8	517.7	523.0	525.6	527.4
35°	461.6	476.5	489.6	499.3	506.3	512.5	515.1	516.8
37.5°	450.2	464.2	475.6	485.3	491.4	496.7	500.2	501.1
40°	435.2	448.4	458.9	468.6	474.7	479.1	481.7	483.5
42.5°	419.4	430.9	440.5	448.4	455.4	459.8	462.4	463.3
45°	403.7	413.3	422.1	429.1	433.5	437.9	439.6	440.5
47.5°	387.0	396.6	403.7	409.8	413.3	415.9	417.7	418.6
50°	371.2	379.1	385.2	389.6	392.2	394.9	396.6	396.6
52.5°	355.4	362.4	366.8	370.3	373.8	375.6	376.4	376.4
55°	341.3	345.7	350.1	351.9	352.8	353.6	355.4	355.4
57.5°	326.4	329.9	332.6	334.3	335.2	337.0	337.0	337.0
60°	311.5	314.1	315.0	316.8	317.7	318.5	319.4	319.4
62.5°	296.6	298.4	300.1	300.1	301.0	302.7	302.7	303.6
65°	280.8	282.6	283.4	284.3	285.2	286.1	286.9	286.9
67.5°	265.9	266.8	266.8	267.6	268.5	270.3	271.1	271.1
70°	249.2	249.2	249.2	250.1	251.0	252.7	253.6	254.5
72.5°	231.7	231.7	231.7	232.5	233.4	235.2	236.0	236.0
75°	212.4	212.4	211.5	212.4	211.5	212.4	211.5	213.2
77.5°	189.5	186.9	186.0	185.2	183.4	184.3	183.4	184.3
80°	161.5	158.8	156.2	155.3	155.3	154.4	153.6	155.3
82.5°	129.0	126.4	124.6	123.7	123.7	123.7	124.6	122.9
85°	92.1	89.5	87.8	87.8	86.0	86.0	86.0	85.1
87.5°	45.6	47.4	46.5	46.5	43.9	42.1	43.0	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)