

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: CORELITE

Report Number: P253481

Luminaire Tested: **J3-CL-80L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-80L93050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6497.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

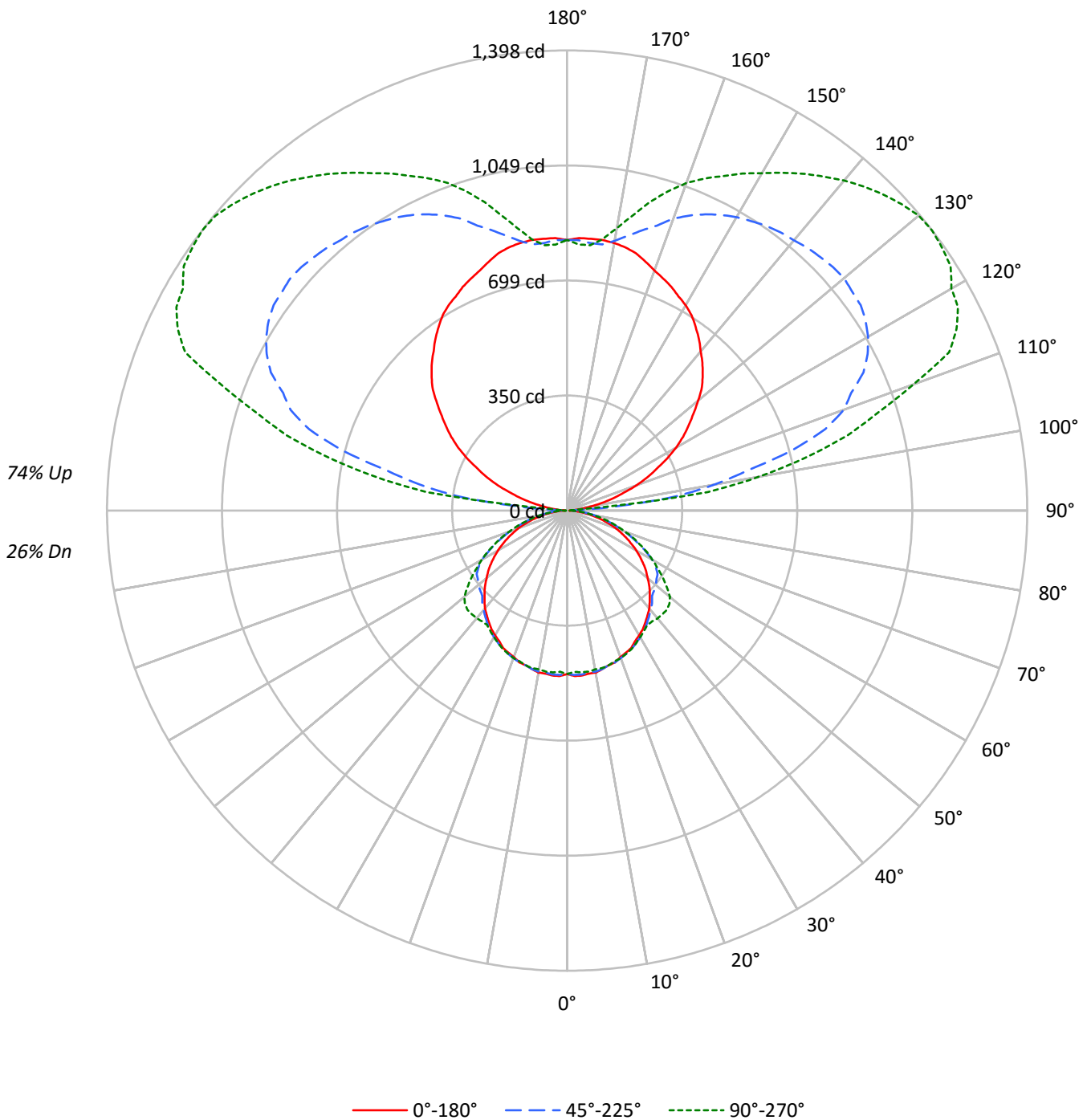
Input Watts (W): 63.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4009	4009	4009
5°	4077	4050	3998
10°	4097	4071	4017
15°	4068	4068	4068
20°	4068	4096	4096
25°	4101	4130	4130
30°	4077	4138	4138
35°	4083	4148	4181
40°	4089	4158	4505
45°	4054	4167	4881
50°	4006	4420	5122
55°	3980	4721	4998
60°	3928	4831	4831
65°	3832	4586	4648
70°	3725	4348	4423
75°	3487	4102	4205
80°	3212	3975	3821
85°	3047	4261	3659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.7
10°-20°	137.4	2.1
20°-30°	212.4	3.3
30°-40°	263.4	4.1
40°-50°	294.8	4.5
50°-60°	288.1	4.4
60°-70°	227.2	3.5
70°-80°	137.5	2.1
80°-90°	49.0	0.8
90°-100°	168.8	2.6
100°-110°	652.7	10.0
110°-120°	896.9	13.8
120°-130°	907.4	14.0
130°-140°	804.2	12.4
140°-150°	636.0	9.8
150°-160°	444.1	6.8
160°-170°	251.3	3.9
170°-180°	78.8	1.2
0°-30°	397.2	6.1
0°-40°	660.6	10.2
0°-60°	1243.5	19.1
0°-90°	1657.2	25.5
90°-120°	1718.4	26.4
90°-150°	4066.0	62.6
90°-180°	4840.0	74.5
0°-180°	6497.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	503	497	500	497	493	48
15°	487	483	487	487	487	138
25°	460	454	464	464	464	211
35°	414	414	421	424	424	259
45°	355	358	365	411	428	274
55°	283	286	335	355	355	253
65°	201	210	240	243	243	198
75°	112	132	132	135	135	118
85°	33	53	46	43	40	34
90°	7	20	16	3	3	6
95°	26	132	158	33	33	33
105°	145	467	707	816	881	154
115°	299	631	993	1230	1306	298
125°	450	730	1088	1325	1391	403
135°	582	802	1088	1302	1358	448
145°	681	822	1056	1210	1250	426
155°	750	802	993	1102	1121	346
165°	809	806	881	957	970	228
175°	829	819	816	816	809	79
180°	822	822	822	822	822	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.6	496.6	496.6	496.6	496.6
2.5°	503.1	496.6	499.8	496.6	490.0
5°	503.1	496.6	499.8	496.6	493.3
7.5°	499.8	496.6	496.6	493.3	493.3
10°	499.8	493.3	496.6	493.3	490.0
12.5°	493.3	490.0	493.3	490.0	490.0
15°	486.7	483.4	486.7	486.7	486.7
17.5°	483.4	476.8	483.4	483.4	480.1
20°	473.5	470.2	476.8	476.8	476.8
22.5°	467.0	463.7	470.2	470.2	470.2
25°	460.4	453.8	463.7	463.7	463.7
27.5°	447.2	447.2	453.8	457.1	453.8
30°	437.4	434.1	443.9	447.2	443.9
32.5°	427.5	424.2	434.1	437.4	434.1
35°	414.3	414.3	420.9	424.2	424.2
37.5°	401.2	401.2	407.8	411.1	424.2
40°	388.0	388.0	394.6	414.3	427.5
42.5°	371.6	371.6	381.5	411.1	427.5
45°	355.1	358.4	365.0	411.1	427.5
47.5°	338.7	342.0	358.4	407.8	420.9
50°	319.0	325.6	351.9	397.9	407.8
52.5°	302.5	305.8	342.0	381.5	381.5
55°	282.8	286.1	335.4	355.1	355.1
57.5°	263.1	266.4	319.0	325.6	325.6
60°	243.3	246.6	299.2	299.2	299.2
62.5°	220.3	226.9	269.7	272.9	272.9
65°	200.6	210.5	240.1	243.3	243.3
67.5°	177.6	194.0	213.7	217.0	217.0
70°	157.8	177.6	184.2	187.4	187.4
72.5°	134.8	154.6	157.8	161.1	161.1
75°	111.8	131.5	131.5	134.8	134.8
77.5°	88.8	105.2	108.5	108.5	108.5
80°	69.1	78.9	85.5	82.2	82.2
82.5°	49.3	62.5	62.5	62.5	59.2
85°	32.9	52.6	46.0	42.7	39.5
87.5°	19.7	46.0	26.3	23.0	23.0
90°	6.6	19.7	16.4	3.3	3.3
92.5°	13.2	32.9	16.4	13.2	9.9
95°	26.3	131.5	157.8	32.9	32.9
97.5°	49.3	220.3	338.7	401.2	430.8
100°	75.6	328.8	453.8	555.7	591.9
102.5°	108.5	397.9	559.0	687.3	739.9
105°	144.7	467.0	707.0	815.5	881.3
107.5°	180.9	519.6	822.1	943.8	989.8
110°	223.6	562.3	894.5	1104.9	1118.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	263.1	595.2	933.9	1183.8	1256.2
115°	299.2	631.4	993.1	1229.9	1305.5
117.5°	342.0	657.7	1029.3	1256.2	1338.4
120°	381.5	680.7	1055.6	1289.1	1348.3
122.5°	417.6	707.0	1075.3	1315.4	1381.1
125°	450.5	730.0	1088.5	1325.2	1391.0
127.5°	483.4	749.8	1091.8	1328.5	1397.6
130°	519.6	769.5	1098.3	1325.2	1394.3
132.5°	555.7	789.2	1095.0	1315.4	1377.8
135°	582.1	802.4	1088.5	1302.2	1358.1
137.5°	608.4	812.2	1081.9	1282.5	1335.1
140°	631.4	818.8	1072.0	1259.5	1308.8
142.5°	657.7	822.1	1065.4	1236.4	1279.2
145°	680.7	822.1	1055.6	1210.1	1249.6
147.5°	703.7	818.8	1042.4	1183.8	1216.7
150°	720.2	812.2	1029.3	1157.5	1183.8
152.5°	733.3	805.7	1012.8	1127.9	1154.2
155°	749.8	802.4	993.1	1101.6	1121.4
157.5°	762.9	802.4	970.1	1072.0	1091.8
160°	776.1	802.4	943.8	1042.4	1058.9
162.5°	792.5	802.4	907.6	999.7	1016.1
165°	809.0	805.7	881.3	956.9	970.1
167.5°	818.8	805.7	855.0	904.3	917.5
170°	825.4	812.2	832.0	868.1	871.4
172.5°	828.7	818.8	815.5	832.0	832.0
175°	828.7	818.8	815.5	815.5	809.0
177.5°	828.7	822.1	822.1	818.8	809.0
180°	822.1	822.1	822.1	822.1	822.1

(END OF REPORT)