

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: P253511

Luminaire Tested: **J3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7651.8 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

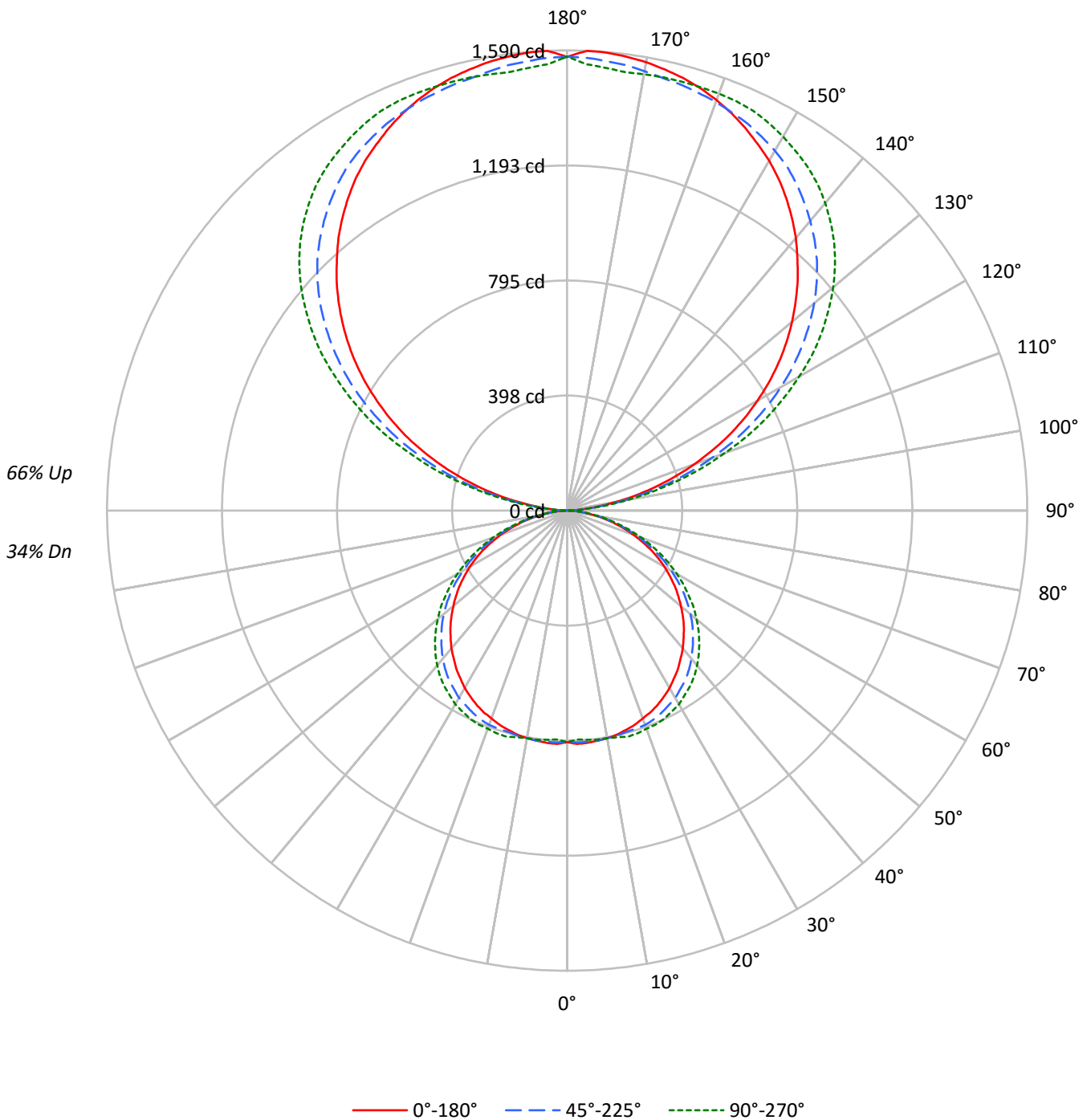
Input Watts (W): 62.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28				
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23				
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19				
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16				
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14				
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12				
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11				
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10				
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9				
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6459	6459	6459
5°	6526	6498	6442
10°	6544	6544	6544
15°	6557	6615	6761
20°	6564	6771	6889
25°	6593	6869	7067
30°	6596	6962	7205
35°	6582	7021	7295
40°	6552	7039	7363
45°	6509	7018	7371
50°	6447	6988	7333
55°	6379	6890	7225
60°	6261	6710	7070
65°	6067	6458	6825
70°	5717	6083	6401
75°	5250	5571	5839
80°	4556	4868	5040
85°	3649	3788	3992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.0
10°-20°	224.5	2.9
20°-30°	353.6	4.6
30°-40°	441.8	5.8
40°-50°	470.9	6.2
50°-60°	434.2	5.7
60°-70°	333.5	4.4
70°-80°	188.9	2.5
80°-90°	49.8	0.7
90°-100°	80.2	1.0
100°-110°	377.5	4.9
110°-120°	684.2	8.9
120°-130°	878.9	11.5
130°-140°	935.0	12.2
140°-150°	860.3	11.2
150°-160°	681.3	8.9
160°-170°	432.5	5.7
170°-180°	148.4	1.9
0°-30°	654.4	8.6
0°-40°	1096.2	14.3
0°-60°	2001.3	26.2
0°-90°	2573.5	33.6
90°-120°	1142.0	14.9
90°-150°	3816.2	49.9
90°-180°	5078.0	66.4
0°-180°	7651.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	805	798	802	800	795	77
15°	784	781	792	805	809	222
25°	740	742	771	787	793	341
35°	668	680	712	730	740	417
45°	570	585	615	634	646	440
55°	453	467	490	505	513	404
65°	318	325	338	350	357	313
75°	168	172	179	185	187	179
85°	39	41	41	43	43	45
90°	2	2	2	0	0	5
95°	53	55	60	64	67	69
105°	316	330	361	383	393	334
115°	618	644	699	742	762	610
125°	893	920	991	1046	1075	797
135°	1126	1144	1221	1274	1305	869
145°	1319	1314	1381	1423	1449	825
155°	1458	1437	1475	1506	1523	672
165°	1547	1523	1523	1528	1534	437
175°	1588	1570	1559	1547	1535	151
180°	1568	1568	1568	1568	1568	



TEST NUMBER: P253511

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.1	800.1	800.1	800.1	800.1
2.5°	807.1	800.1	801.9	801.9	791.5
5°	805.3	798.3	801.9	800.1	794.9
7.5°	801.9	796.7	801.9	801.9	798.3
10°	798.3	793.4	798.3	800.1	798.3
12.5°	793.4	788.2	796.7	800.1	801.9
15°	784.5	781.2	791.5	805.3	808.9
17.5°	776.3	774.4	790.0	805.3	807.1
20°	764.0	764.0	788.2	800.1	801.9
22.5°	754.0	754.0	781.2	793.4	800.1
25°	740.2	741.8	771.1	786.6	793.4
27.5°	724.7	729.8	758.9	776.3	783.0
30°	707.6	716.1	746.9	764.0	772.9
32.5°	687.1	698.7	729.8	746.9	755.5
35°	667.9	680.1	712.4	729.8	740.2
37.5°	644.0	659.3	692.0	709.1	721.3
40°	621.7	637.3	667.9	687.1	698.7
42.5°	595.8	612.9	642.2	661.1	673.0
45°	570.1	585.4	614.7	633.7	645.6
47.5°	542.7	558.2	587.5	604.6	616.2
50°	513.3	530.4	556.4	573.5	583.9
52.5°	484.0	499.6	523.7	541.1	551.2
55°	453.2	466.9	489.5	505.1	513.3
57.5°	420.5	434.2	453.2	468.8	477.3
60°	387.8	398.2	415.6	430.9	437.9
62.5°	353.6	362.5	377.7	390.0	398.2
65°	317.6	324.6	338.1	350.3	357.3
67.5°	280.0	286.7	298.7	309.0	314.2
70°	242.2	248.9	257.7	266.0	271.2
72.5°	205.8	209.5	218.0	225.1	228.4
75°	168.3	171.6	178.6	185.4	187.2
77.5°	134.1	135.6	141.1	144.4	146.0
80°	98.0	101.4	104.7	106.3	108.4
82.5°	66.9	68.7	70.2	72.1	73.6
85°	39.4	40.9	40.9	43.1	43.1
87.5°	17.1	18.9	18.9	18.9	18.9
90°	1.8	1.8	1.8	0.0	0.0
92.5°	17.1	17.1	18.9	20.5	22.3
95°	53.1	55.0	60.2	63.5	66.9
97.5°	106.3	109.9	120.0	128.9	132.2
100°	171.6	178.6	194.2	205.8	211.3
102.5°	242.2	252.2	274.8	291.9	300.5
105°	316.1	329.8	360.6	382.9	393.3
107.5°	391.5	408.9	448.3	473.9	487.7
110°	466.9	489.5	532.3	566.5	576.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	542.7	566.5	618.1	655.9	674.9
115°	618.1	644.0	698.7	741.8	762.5
117.5°	690.5	717.6	777.8	826.0	844.7
120°	758.9	788.2	853.5	903.3	925.6
122.5°	827.6	855.4	923.8	976.9	1004.7
125°	892.9	920.4	990.9	1045.6	1074.9
127.5°	954.9	980.3	1054.5	1111.0	1138.4
130°	1014.8	1038.9	1114.3	1169.6	1200.4
132.5°	1071.6	1093.9	1169.6	1222.7	1255.4
135°	1126.5	1143.6	1220.9	1274.0	1305.2
137.5°	1177.8	1190.0	1265.8	1318.9	1348.2
140°	1229.4	1233.1	1306.7	1356.5	1387.3
142.5°	1275.9	1274.0	1344.6	1392.5	1421.8
145°	1318.9	1313.7	1380.6	1423.4	1449.3
147.5°	1359.8	1348.2	1411.4	1447.8	1471.6
150°	1395.9	1380.6	1435.6	1471.6	1492.1
152.5°	1426.7	1409.6	1456.0	1488.7	1509.2
155°	1457.9	1437.4	1475.0	1505.8	1523.2
157.5°	1485.3	1459.4	1488.7	1516.2	1530.2
160°	1509.2	1483.8	1502.4	1523.2	1533.6
162.5°	1530.2	1504.3	1512.8	1524.7	1533.6
165°	1547.3	1523.2	1523.2	1528.1	1533.6
167.5°	1560.8	1540.3	1530.2	1531.8	1533.6
170°	1573.0	1552.2	1541.8	1531.8	1530.2
172.5°	1581.5	1560.8	1552.2	1538.5	1528.1
175°	1588.3	1569.6	1558.9	1547.3	1535.1
177.5°	1590.1	1574.5	1566.0	1554.1	1543.7
180°	1567.8	1567.8	1567.8	1567.8	1567.8

(END OF REPORT)