

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: P253529

Luminaire Tested: **J3-FL-80L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253529  
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 (5000K)  
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 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8124.1 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

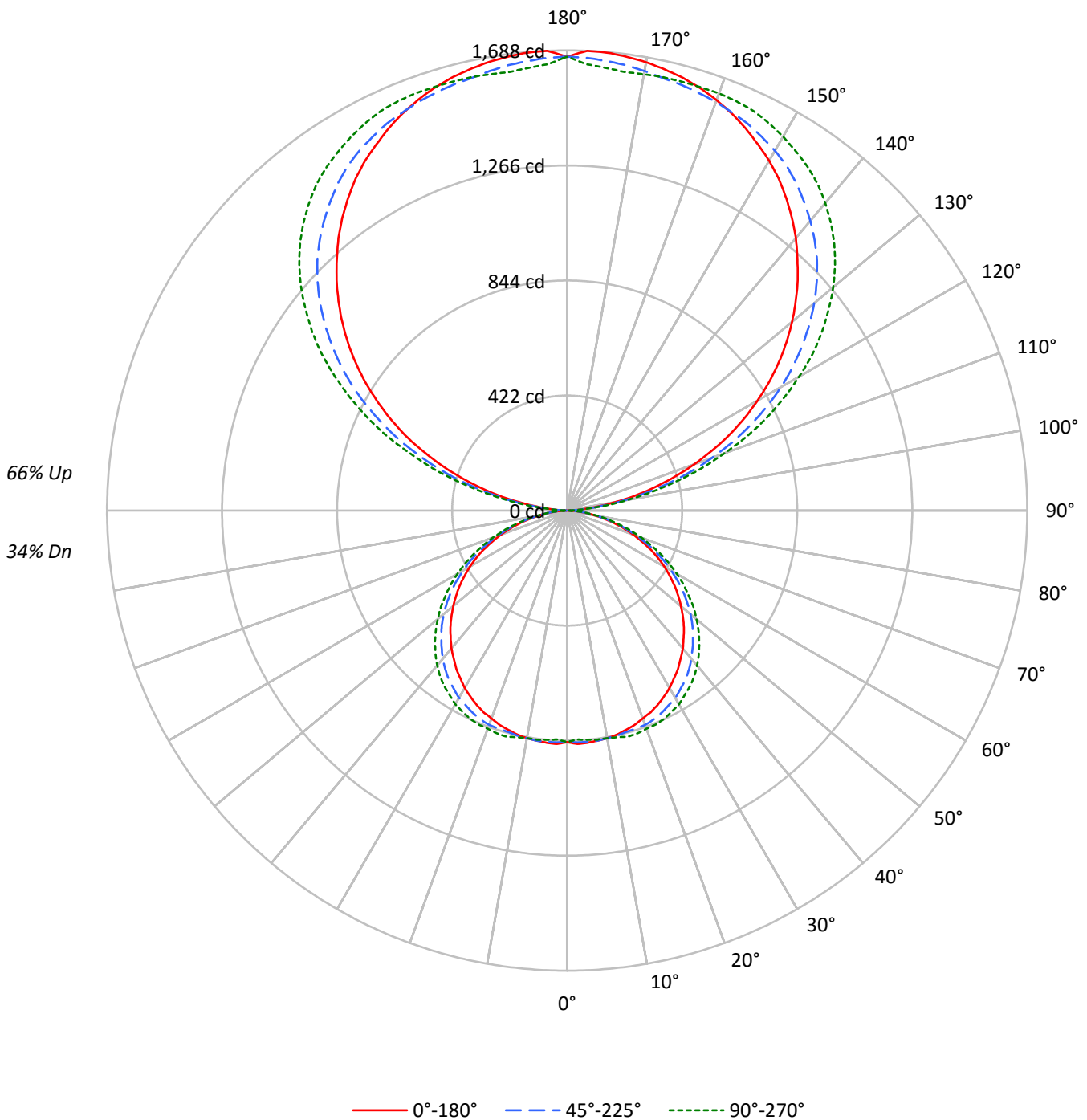
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6858	6858	6858
5°	6929	6900	6840
10°	6947	6947	6947
15°	6961	7024	7178
20°	6969	7189	7314
25°	7000	7293	7503
30°	7003	7393	7649
35°	6988	7455	7745
40°	6956	7473	7817
45°	6911	7452	7825
50°	6845	7419	7785
55°	6771	7315	7671
60°	6649	7125	7506
65°	6441	6856	7245
70°	6069	6458	6796
75°	5571	5917	6198
80°	4840	5170	5351
85°	3872	4020	4233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	1.0
10°-20°	238.3	2.9
20°-30°	375.4	4.6
30°-40°	469.0	5.8
40°-50°	500.0	6.2
50°-60°	461.0	5.7
60°-70°	354.1	4.4
70°-80°	200.6	2.5
80°-90°	52.9	0.7
90°-100°	85.2	1.0
100°-110°	400.8	4.9
110°-120°	726.5	8.9
120°-130°	933.2	11.5
130°-140°	992.7	12.2
140°-150°	913.4	11.2
150°-160°	723.3	8.9
160°-170°	459.2	5.7
170°-180°	157.5	1.9
0°-30°	694.8	8.6
0°-40°	1163.8	14.3
0°-60°	2124.8	26.2
0°-90°	2732.3	33.6
90°-120°	1212.4	14.9
90°-150°	4051.7	49.9
90°-180°	5392.0	66.4
0°-180°	8124.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	855	848	851	850	844	81
15°	833	829	840	855	859	235
25°	786	788	819	835	842	362
35°	709	722	756	775	786	443
45°	605	622	653	673	685	467
55°	481	496	520	536	545	429
65°	337	345	359	372	379	333
75°	179	182	190	197	199	190
85°	42	43	43	46	46	47
90°	2	2	2	0	0	6
95°	56	58	64	67	71	73
105°	336	350	383	407	418	355
115°	656	684	742	788	810	647
125°	948	977	1052	1110	1141	846
135°	1196	1214	1296	1353	1386	922
145°	1400	1395	1466	1511	1539	876
155°	1548	1526	1566	1599	1617	714
165°	1643	1617	1617	1622	1628	464
175°	1686	1666	1655	1643	1630	160
180°	1665	1665	1665	1665	1665	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	849.5	849.5	849.5	849.5	849.5
2.5°	856.9	849.5	851.4	851.4	840.4
5°	855.0	847.5	851.4	849.5	844.0
7.5°	851.4	845.9	851.4	851.4	847.5
10°	847.5	842.3	847.5	849.5	847.5
12.5°	842.3	836.8	845.9	849.5	851.4
15°	832.9	829.4	840.4	855.0	858.9
17.5°	824.2	822.2	838.8	855.0	856.9
20°	811.2	811.2	836.8	849.5	851.4
22.5°	800.5	800.5	829.4	842.3	849.5
25°	785.9	787.5	818.7	835.2	842.3
27.5°	769.4	774.9	805.7	824.2	831.3
30°	751.2	760.3	793.1	811.2	820.6
32.5°	729.5	741.8	774.9	793.1	802.1
35°	709.1	722.0	756.4	774.9	785.9
37.5°	683.8	700.0	734.7	752.9	765.8
40°	660.1	676.7	709.1	729.5	741.8
42.5°	632.6	650.7	681.8	701.9	714.6
45°	605.3	621.5	652.7	672.8	685.4
47.5°	576.1	592.7	623.8	642.0	654.3
50°	545.0	563.2	590.7	608.9	619.9
52.5°	513.9	530.4	556.0	574.5	585.2
55°	481.1	495.7	519.7	536.3	545.0
57.5°	446.5	461.0	481.1	497.7	506.8
60°	411.8	422.8	441.3	457.5	464.9
62.5°	375.5	384.9	401.1	414.0	422.8
65°	337.2	344.7	358.9	371.9	379.3
67.5°	297.3	304.4	317.1	328.1	333.6
70°	257.1	264.2	273.6	282.4	287.9
72.5°	218.5	222.4	231.5	239.0	242.5
75°	178.6	182.2	189.7	196.8	198.7
77.5°	142.3	144.0	149.8	153.4	155.0
80°	104.1	107.6	111.2	112.8	115.1
82.5°	71.0	73.0	74.6	76.5	78.1
85°	41.8	43.4	43.4	45.7	45.7
87.5°	18.2	20.1	20.1	20.1	20.1
90°	1.9	1.9	1.9	0.0	0.0
92.5°	18.2	18.2	20.1	21.7	23.7
95°	56.4	58.4	63.9	67.4	71.0
97.5°	112.8	116.7	127.4	136.8	140.4
100°	182.2	189.7	206.2	218.5	224.4
102.5°	257.1	267.8	291.8	310.0	319.0
105°	335.6	350.2	382.9	406.6	417.6
107.5°	415.7	434.1	476.0	503.2	517.8
110°	495.7	519.7	565.1	601.4	612.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	576.1	601.4	656.2	696.4	716.5
115°	656.2	683.8	741.8	787.5	809.6
117.5°	733.1	761.9	825.8	877.0	896.8
120°	805.7	836.8	906.2	959.1	982.7
122.5°	878.6	908.2	980.8	1037.2	1066.7
125°	948.0	977.2	1052.1	1110.1	1141.3
127.5°	1013.9	1040.8	1119.5	1179.5	1208.7
130°	1077.4	1103.0	1183.1	1241.8	1274.5
132.5°	1137.7	1161.4	1241.8	1298.2	1332.9
135°	1196.1	1214.2	1296.3	1352.7	1385.7
137.5°	1250.5	1263.5	1343.9	1400.3	1431.5
140°	1305.3	1309.2	1387.4	1440.2	1473.0
142.5°	1354.6	1352.7	1427.6	1478.5	1509.6
145°	1400.3	1394.8	1465.8	1511.2	1538.8
147.5°	1443.8	1431.5	1498.6	1537.2	1562.4
150°	1482.0	1465.8	1524.2	1562.4	1584.2
152.5°	1514.8	1496.6	1545.9	1580.6	1602.3
155°	1547.8	1526.1	1566.0	1598.8	1617.2
157.5°	1577.0	1549.5	1580.6	1609.8	1624.7
160°	1602.3	1575.4	1595.2	1617.2	1628.3
162.5°	1624.7	1597.1	1606.2	1618.9	1628.3
165°	1642.8	1617.2	1617.2	1622.4	1628.3
167.5°	1657.1	1635.4	1624.7	1626.3	1628.3
170°	1670.1	1648.0	1637.0	1626.3	1624.7
172.5°	1679.2	1657.1	1648.0	1633.4	1622.4
175°	1686.3	1666.5	1655.2	1642.8	1629.9
177.5°	1688.2	1671.7	1662.6	1650.0	1639.0
180°	1664.6	1664.6	1664.6	1664.6	1664.6

(END OF REPORT)