

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: P253523

Luminaire Tested: **J3-FL-80L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253523
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8123.9 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

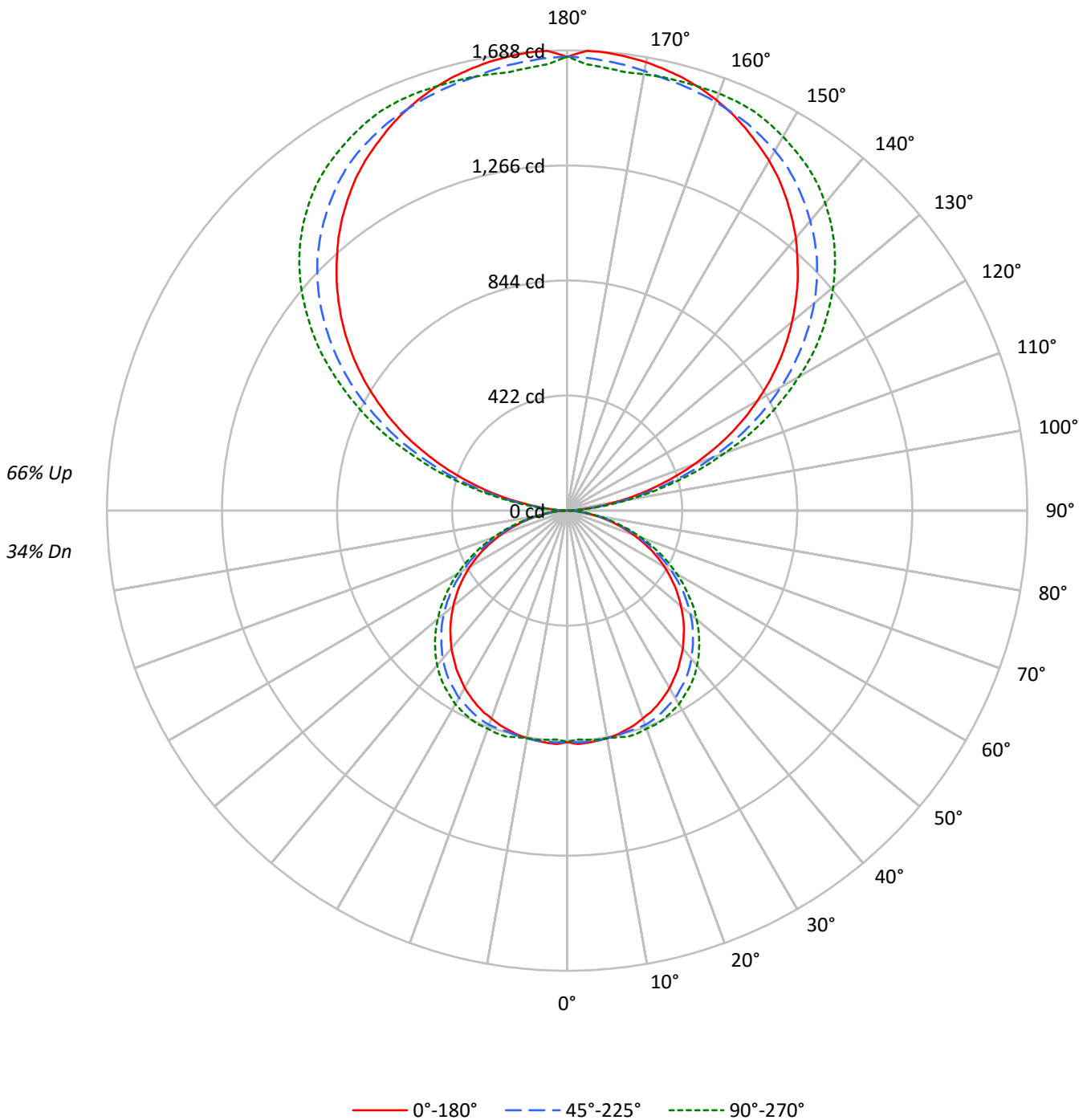
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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																				
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°	6857	6857	6857
5°	6929	6900	6839
10°	6947	6947	6947
15°	6961	7024	7178
20°	6969	7189	7314
25°	7000	7292	7503
30°	7003	7392	7649
35°	6988	7455	7745
40°	6956	7473	7817
45°	6911	7451	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°	499.9	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°	933.1	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°	4051.6	49.9
90°-180°	5392.0	66.4
0°-180°	8123.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	855	848	851	849	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°	1664	1664	1664	1664	1664	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.4	849.4	849.4	849.4	849.4
2.5°	856.9	849.4	851.4	851.4	840.4
5°	855.0	847.5	851.4	849.4	843.9
7.5°	851.4	845.9	851.4	851.4	847.5
10°	847.5	842.3	847.5	849.4	847.5
12.5°	842.3	836.8	845.9	849.4	851.4
15°	832.9	829.3	840.4	855.0	858.8
17.5°	824.2	822.2	838.7	855.0	856.9
20°	811.2	811.2	836.8	849.4	851.4
22.5°	800.5	800.5	829.3	842.3	849.4
25°	785.9	787.5	818.6	835.2	842.3
27.5°	769.4	774.9	805.7	824.2	831.3
30°	751.2	760.3	793.0	811.2	820.6
32.5°	729.5	741.8	774.9	793.0	802.1
35°	709.1	722.0	756.4	774.9	785.9
37.5°	683.8	700.0	734.7	752.8	765.8
40°	660.1	676.6	709.1	729.5	741.8
42.5°	632.5	650.7	681.8	701.9	714.6
45°	605.3	621.5	652.6	672.7	685.4
47.5°	576.1	592.7	623.8	641.9	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°	446.4	461.0	481.1	497.7	506.8
60°	411.8	422.8	441.3	457.5	464.9
62.5°	375.4	384.8	401.1	414.0	422.8
65°	337.2	344.6	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	238.9	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	72.9	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°	415.6	434.1	475.9	503.2	517.8
110°	495.7	519.7	565.1	601.4	612.4



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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	959.0	982.7
122.5°	878.6	908.1	980.8	1037.2	1066.7
125°	948.0	977.2	1052.1	1110.1	1141.2
127.5°	1013.8	1040.7	1119.5	1179.5	1208.7
130°	1077.4	1103.0	1183.1	1241.7	1274.5
132.5°	1137.7	1161.3	1241.7	1298.2	1332.9
135°	1196.0	1214.2	1296.2	1352.6	1385.7
137.5°	1250.5	1263.5	1343.9	1400.3	1431.4
140°	1305.3	1309.2	1387.3	1440.2	1472.9
142.5°	1354.6	1352.6	1427.5	1478.4	1509.6
145°	1400.3	1394.8	1465.8	1511.2	1538.7
147.5°	1443.7	1431.4	1498.5	1537.1	1562.4
150°	1482.0	1465.8	1524.1	1562.4	1584.1
152.5°	1514.7	1496.6	1545.9	1580.6	1602.3
155°	1547.8	1526.1	1566.0	1598.7	1617.2
157.5°	1577.0	1549.4	1580.6	1609.7	1624.6
160°	1602.3	1575.4	1595.1	1617.2	1628.2
162.5°	1624.6	1597.1	1606.2	1618.8	1628.2
165°	1642.8	1617.2	1617.2	1622.4	1628.2
167.5°	1657.1	1635.3	1624.6	1626.3	1628.2
170°	1670.0	1648.0	1637.0	1626.3	1624.6
172.5°	1679.1	1657.1	1648.0	1633.4	1622.4
175°	1686.2	1666.5	1655.1	1642.8	1629.8
177.5°	1688.2	1671.7	1662.6	1649.9	1638.9
180°	1664.5	1664.5	1664.5	1664.5	1664.5

(END OF REPORT)