

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: P253559

Luminaire Tested: **J3-FL-80L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253559
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-80L93050-1D-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, 90 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7145.4 lumens
Efficiency: N/A
Efficacy: 110.1 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

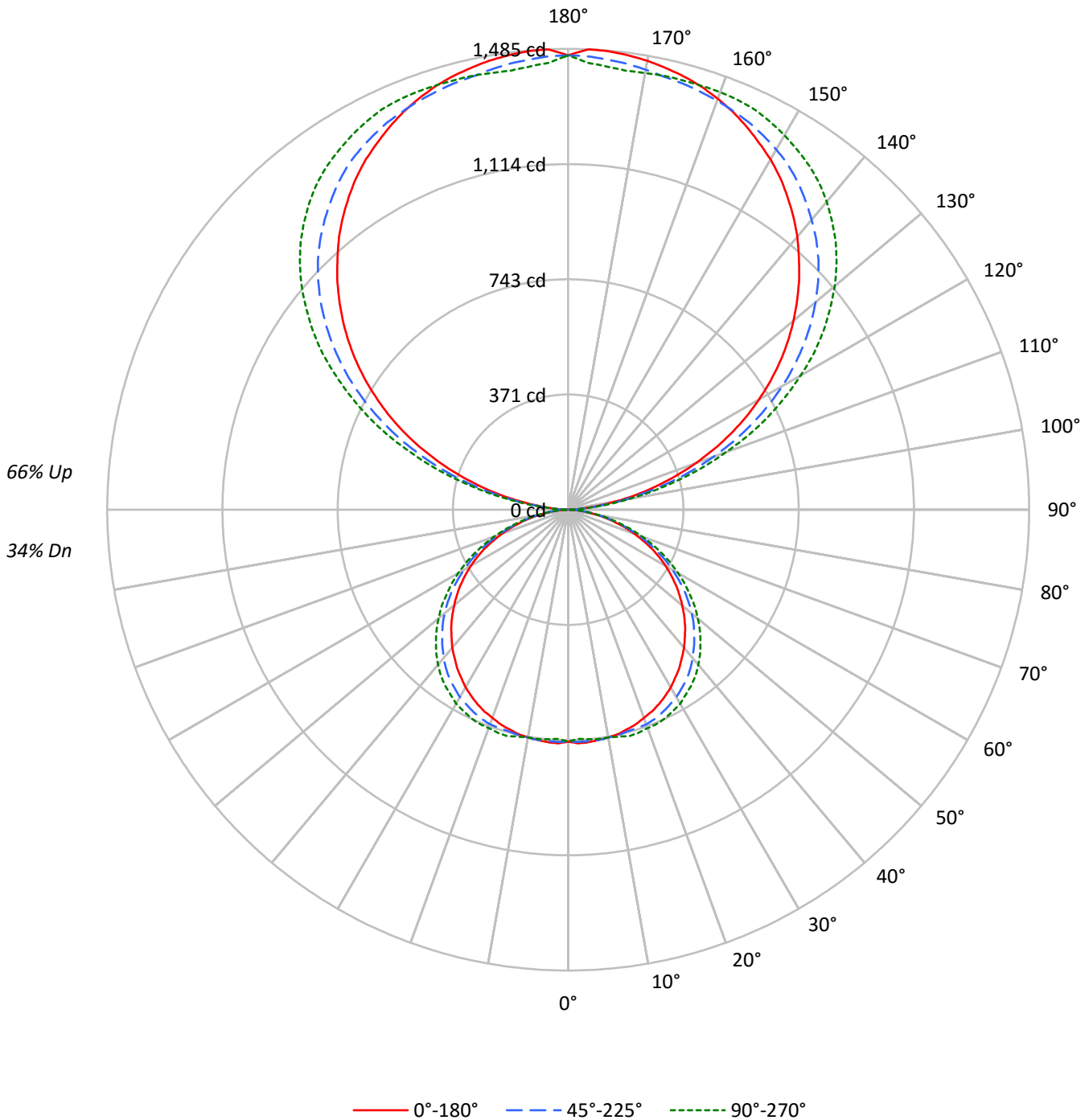
Input Watts (W): 64.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6031	6031	6031
5°	6094	6068	6015
10°	6110	6110	6110
15°	6123	6177	6313
20°	6130	6323	6433
25°	6157	6413	6600
30°	6159	6502	6728
35°	6147	6557	6812
40°	6119	6573	6876
45°	6078	6553	6882
50°	6021	6526	6847
55°	5956	6434	6747
60°	5848	6266	6602
65°	5666	6031	6372
70°	5337	5681	5976
75°	4900	5203	5452
80°	4254	4547	4705
85°	3409	3538	3724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.0
10°-20°	209.6	2.9
20°-30°	330.2	4.6
30°-40°	412.5	5.8
40°-50°	439.7	6.2
50°-60°	405.5	5.7
60°-70°	311.4	4.4
70°-80°	176.4	2.5
80°-90°	46.5	0.7
90°-100°	74.9	1.0
100°-110°	352.5	4.9
110°-120°	639.0	8.9
120°-130°	820.7	11.5
130°-140°	873.1	12.2
140°-150°	803.4	11.2
150°-160°	636.2	8.9
160°-170°	403.9	5.7
170°-180°	138.5	1.9
0°-30°	611.1	8.6
0°-40°	1023.6	14.3
0°-60°	1868.8	26.2
0°-90°	2403.2	33.6
90°-120°	1066.4	14.9
90°-150°	3563.6	49.9
90°-180°	4742.0	66.4
0°-180°	7145.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	752	745	749	747	742	72
15°	733	730	739	752	755	207
25°	691	693	720	735	741	319
35°	624	635	665	682	691	390
45°	532	547	574	592	603	410
55°	423	436	457	472	479	378
65°	297	303	316	327	334	293
75°	157	160	167	173	175	167
85°	37	38	38	40	40	42
90°	2	2	2	0	0	5
95°	50	51	56	59	62	64
105°	295	308	337	358	367	312
115°	577	601	652	693	712	569
125°	834	860	925	976	1004	744
135°	1052	1068	1140	1190	1219	811
145°	1232	1227	1289	1329	1353	771
155°	1361	1342	1377	1406	1422	628
165°	1445	1422	1422	1427	1432	408
175°	1483	1466	1456	1445	1434	141
180°	1464	1464	1464	1464	1464	



TEST NUMBER: P253559

CATALOG NUMBER: J3-FL-80L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.1	747.1	747.1	747.1	747.1
2.5°	753.7	747.1	748.8	748.8	739.1
5°	752.0	745.4	748.8	747.1	742.3
7.5°	748.8	744.0	748.8	748.8	745.4
10°	745.4	740.9	745.4	747.1	745.4
12.5°	740.9	736.0	744.0	747.1	748.8
15°	732.6	729.5	739.1	752.0	755.4
17.5°	724.9	723.2	737.7	752.0	753.7
20°	713.5	713.5	736.0	747.1	748.8
22.5°	704.1	704.1	729.5	740.9	747.1
25°	691.2	692.7	720.0	734.6	740.9
27.5°	676.7	681.5	708.6	724.9	731.2
30°	660.7	668.7	697.5	713.5	721.8
32.5°	641.6	652.5	681.5	697.5	705.5
35°	623.7	635.1	665.3	681.5	691.2
37.5°	601.4	615.7	646.2	662.2	673.6
40°	580.6	595.1	623.7	641.6	652.5
42.5°	556.4	572.3	599.7	617.4	628.5
45°	532.4	546.7	574.0	591.7	602.8
47.5°	506.7	521.3	548.7	564.6	575.5
50°	479.4	495.3	519.6	535.5	545.2
52.5°	452.0	466.5	489.1	505.3	514.7
55°	423.2	436.0	457.1	471.7	479.4
57.5°	392.7	405.5	423.2	437.7	445.7
60°	362.2	371.9	388.1	402.4	408.9
62.5°	330.2	338.5	352.7	364.2	371.9
65°	296.6	303.1	315.7	327.1	333.6
67.5°	261.5	267.8	278.9	288.6	293.4
70°	226.1	232.4	240.7	248.4	253.2
72.5°	192.2	195.6	203.6	210.2	213.3
75°	157.1	160.3	166.8	173.1	174.8
77.5°	125.2	126.6	131.7	134.9	136.3
80°	91.5	94.7	97.8	99.2	101.2
82.5°	62.5	64.2	65.6	67.3	68.7
85°	36.8	38.2	38.2	40.2	40.2
87.5°	16.0	17.7	17.7	17.7	17.7
90°	1.7	1.7	1.7	0.0	0.0
92.5°	16.0	16.0	17.7	19.1	20.8
95°	49.6	51.3	56.2	59.3	62.5
97.5°	99.2	102.7	112.1	120.3	123.5
100°	160.3	166.8	181.4	192.2	197.3
102.5°	226.1	235.5	256.6	272.6	280.6
105°	295.1	308.0	336.8	357.6	367.3
107.5°	365.6	381.8	418.6	442.6	455.4
110°	436.0	457.1	497.0	529.0	538.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	506.7	529.0	577.2	612.5	630.2
115°	577.2	601.4	652.5	692.7	712.1
117.5°	644.8	670.1	726.3	771.4	788.8
120°	708.6	736.0	797.0	843.5	864.3
122.5°	772.8	798.7	862.6	912.2	938.2
125°	833.8	859.5	925.4	976.4	1003.8
127.5°	891.7	915.4	984.7	1037.4	1063.1
130°	947.6	970.1	1040.6	1092.2	1121.0
132.5°	1000.6	1021.5	1092.2	1141.8	1172.3
135°	1052.0	1067.9	1140.1	1189.7	1218.8
137.5°	1099.9	1111.3	1182.0	1231.6	1259.0
140°	1148.1	1151.5	1220.2	1266.7	1295.5
142.5°	1191.4	1189.7	1255.6	1300.4	1327.7
145°	1231.6	1226.8	1289.2	1329.2	1353.4
147.5°	1269.8	1259.0	1318.0	1352.0	1374.2
150°	1303.5	1289.2	1340.6	1374.2	1393.3
152.5°	1332.3	1316.3	1359.7	1390.2	1409.3
155°	1361.4	1342.3	1377.3	1406.1	1422.4
157.5°	1387.0	1362.8	1390.2	1415.8	1429.0
160°	1409.3	1385.6	1403.0	1422.4	1432.1
162.5°	1429.0	1404.7	1412.7	1423.8	1432.1
165°	1444.9	1422.4	1422.4	1427.0	1432.1
167.5°	1457.5	1438.4	1429.0	1430.4	1432.1
170°	1468.9	1449.5	1439.8	1430.4	1429.0
172.5°	1476.9	1457.5	1449.5	1436.7	1427.0
175°	1483.1	1465.7	1455.8	1444.9	1433.5
177.5°	1484.9	1470.3	1462.3	1451.2	1441.5
180°	1464.0	1464.0	1464.0	1464.0	1464.0

(END OF REPORT)