

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: P253354

Luminaire Tested: **J3-FL-80L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253354  
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-80L840-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7769.2 lumens  
Efficiency: N/A  
Efficacy: 135.8 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

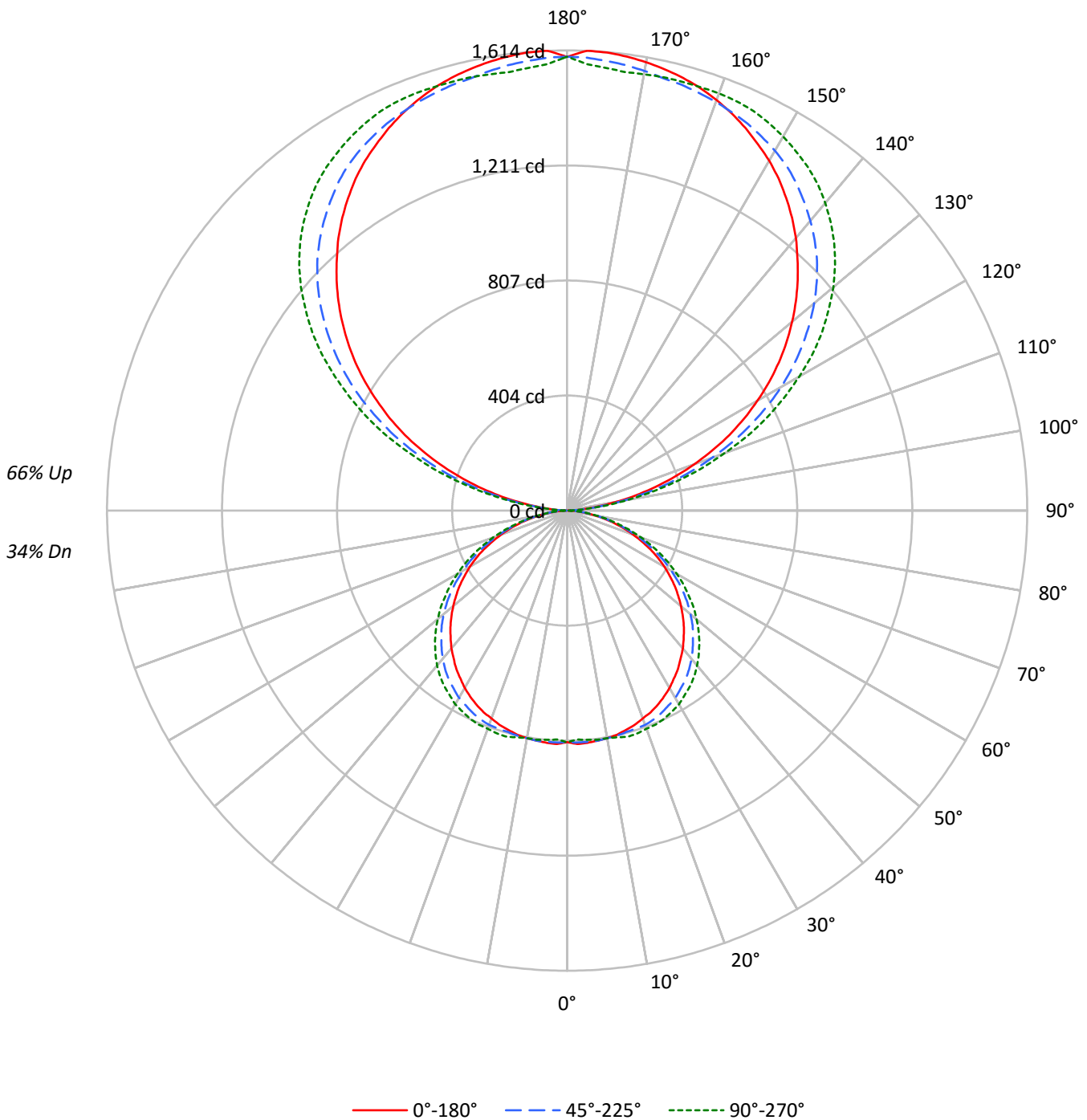
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P253354

CATALOG NUMBER: J3-FL-80L840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P253354

CATALOG NUMBER: J3-FL-80L840-1D-UNV-STD-W-4

**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°	6558	6558	6558
5°	6626	6598	6541
10°	6644	6644	6644
15°	6657	6717	6864
20°	6665	6875	6995
25°	6695	6974	7175
30°	6697	7070	7316
35°	6683	7129	7407
40°	6653	7146	7476
45°	6609	7125	7484
50°	6546	7095	7445
55°	6476	6995	7336
60°	6358	6814	7178
65°	6160	6556	6930
70°	5804	6177	6498
75°	5328	5658	5929
80°	4626	4947	5119
85°	3705	3844	4048



TEST NUMBER: P253354

CATALOG NUMBER: J3-FL-80L840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	1.0
10°-20°	227.9	2.9
20°-30°	359.0	4.6
30°-40°	448.6	5.8
40°-50°	478.1	6.2
50°-60°	440.9	5.7
60°-70°	338.6	4.4
70°-80°	191.8	2.5
80°-90°	50.6	0.7
90°-100°	81.5	1.0
100°-110°	383.3	4.9
110°-120°	694.7	8.9
120°-130°	892.4	11.5
130°-140°	949.3	12.2
140°-150°	873.5	11.2
150°-160°	691.7	8.9
160°-170°	439.1	5.7
170°-180°	150.6	1.9
0°-30°	664.4	8.6
0°-40°	1113.0	14.3
0°-60°	2032.0	26.2
0°-90°	2613.0	33.6
90°-120°	1159.5	14.9
90°-150°	3874.8	49.9
90°-180°	5156.0	66.4
0°-180°	7769.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	818	810	814	812	807	78
15°	796	793	804	818	821	225
25°	752	753	783	799	806	346
35°	678	690	723	741	752	424
45°	579	594	624	643	656	446
55°	460	474	497	513	521	411
65°	322	330	343	356	363	318
75°	171	174	181	188	190	182
85°	40	42	42	44	44	45
90°	2	2	2	0	0	5
95°	54	56	61	64	68	70
105°	321	335	366	389	399	340
115°	628	654	709	753	774	619
125°	907	934	1006	1062	1091	809
135°	1144	1161	1240	1294	1325	882
145°	1339	1334	1402	1445	1472	838
155°	1480	1459	1498	1529	1547	683
165°	1571	1547	1547	1552	1557	444
175°	1613	1594	1583	1571	1559	153
180°	1592	1592	1592	1592	1592	



TEST NUMBER: P253354

CATALOG NUMBER: J3-FL-80L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	812.4	812.4	812.4	812.4	812.4
2.5°	819.5	812.4	814.2	814.2	803.7
5°	817.6	810.5	814.2	812.4	807.1
7.5°	814.2	808.9	814.2	814.2	810.5
10°	810.5	805.5	810.5	812.4	810.5
12.5°	805.5	800.3	808.9	812.4	814.2
15°	796.5	793.1	803.7	817.6	821.3
17.5°	788.2	786.3	802.1	817.6	819.5
20°	775.8	775.8	800.3	812.4	814.2
22.5°	765.5	765.5	793.1	805.5	812.4
25°	751.6	753.1	782.9	798.7	805.5
27.5°	735.8	741.0	770.5	788.2	795.0
30°	718.4	727.1	758.4	775.8	784.8
32.5°	697.6	709.4	741.0	758.4	767.1
35°	678.1	690.5	723.4	741.0	751.6
37.5°	653.9	669.4	702.6	720.0	732.4
40°	631.3	647.1	678.1	697.6	709.4
42.5°	604.9	622.3	652.1	671.3	683.4
45°	578.9	594.4	624.1	643.4	655.5
47.5°	551.0	566.8	596.6	613.9	625.7
50°	521.2	538.6	564.9	582.3	592.8
52.5°	491.4	507.3	531.8	549.4	559.7
55°	460.1	474.1	497.0	512.8	521.2
57.5°	427.0	440.9	460.1	475.9	484.6
60°	393.8	404.3	422.0	437.5	444.6
62.5°	359.0	368.0	383.5	395.9	404.3
65°	322.5	329.6	343.2	355.6	362.8
67.5°	284.3	291.1	303.2	313.8	319.1
70°	245.9	252.7	261.7	270.1	275.3
72.5°	209.0	212.7	221.4	228.5	231.9
75°	170.8	174.3	181.4	188.2	190.1
77.5°	136.1	137.7	143.2	146.7	148.2
80°	99.5	102.9	106.4	107.9	110.1
82.5°	67.9	69.8	71.3	73.2	74.7
85°	40.0	41.5	41.5	43.7	43.7
87.5°	17.4	19.2	19.2	19.2	19.2
90°	1.9	1.9	1.9	0.0	0.0
92.5°	17.4	17.4	19.2	20.8	22.6
95°	54.0	55.8	61.1	64.5	67.9
97.5°	107.9	111.6	121.9	130.8	134.3
100°	174.3	181.4	197.2	209.0	214.6
102.5°	245.9	256.1	279.1	296.4	305.1
105°	320.9	334.9	366.2	388.8	399.4
107.5°	397.5	415.2	455.2	481.2	495.2
110°	474.1	497.0	540.4	575.2	585.7



TEST NUMBER: P253354

CATALOG NUMBER: J3-FL-80L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	551.0	575.2	627.6	666.0	685.2
115°	627.6	653.9	709.4	753.1	774.2
117.5°	701.0	728.6	789.7	838.7	857.6
120°	770.5	800.3	866.6	917.2	939.8
122.5°	840.3	868.5	937.9	991.9	1020.1
125°	906.6	934.5	1006.1	1061.6	1091.4
127.5°	969.6	995.3	1070.6	1128.0	1155.9
130°	1030.3	1054.8	1131.4	1187.5	1218.8
132.5°	1088.0	1110.6	1187.5	1241.5	1274.7
135°	1143.8	1161.2	1239.6	1293.6	1325.2
137.5°	1195.9	1208.3	1285.2	1339.1	1368.9
140°	1248.3	1252.0	1326.7	1377.3	1408.6
142.5°	1295.4	1293.6	1365.2	1413.9	1443.6
145°	1339.1	1333.9	1401.8	1445.2	1471.5
147.5°	1380.7	1368.9	1433.1	1470.0	1494.2
150°	1417.3	1401.8	1457.6	1494.2	1514.9
152.5°	1448.6	1431.2	1478.4	1511.5	1532.3
155°	1480.2	1459.4	1497.6	1528.9	1546.6
157.5°	1508.1	1481.8	1511.5	1539.4	1553.7
160°	1532.3	1506.6	1525.5	1546.6	1557.1
162.5°	1553.7	1527.4	1536.0	1548.1	1557.1
165°	1571.1	1546.6	1546.6	1551.5	1557.1
167.5°	1584.7	1563.9	1553.7	1555.3	1557.1
170°	1597.1	1576.0	1565.5	1555.3	1553.7
172.5°	1605.8	1584.7	1576.0	1562.1	1551.5
175°	1612.6	1593.7	1582.9	1571.1	1558.7
177.5°	1614.5	1598.7	1590.0	1577.9	1567.3
180°	1591.8	1591.8	1591.8	1591.8	1591.8

(END OF REPORT)