

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: P253517

Luminaire Tested: **J3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253517
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053.7 lumens
Efficiency: N/A
Efficacy: 126.2 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

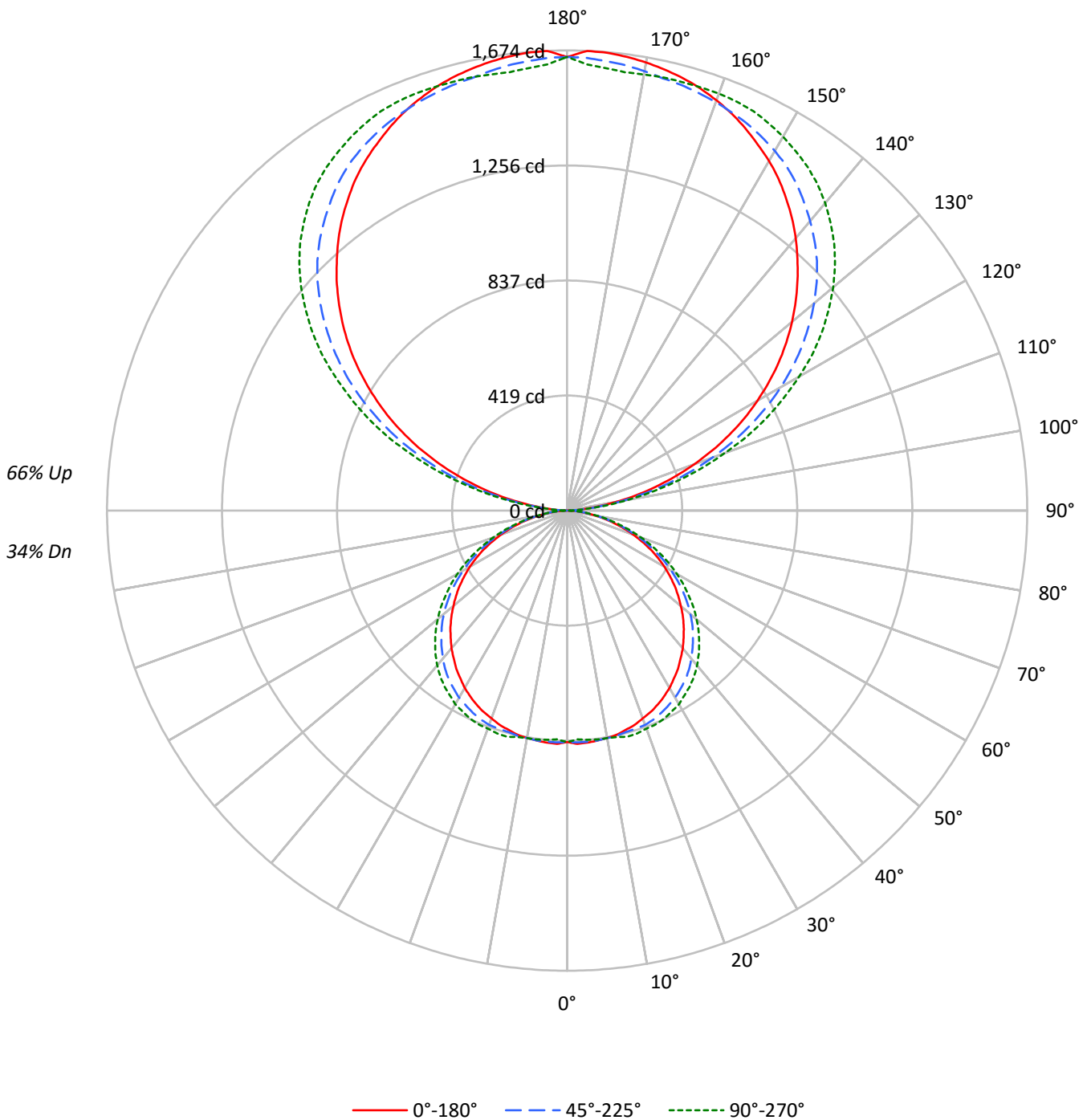
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253517

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253517

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

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°	6798	6798	6798
5°	6869	6840	6780
10°	6888	6888	6888
15°	6901	6963	7116
20°	6909	7127	7251
25°	6940	7229	7438
30°	6942	7329	7583
35°	6927	7390	7678
40°	6896	7407	7750
45°	6851	7387	7758
50°	6786	7355	7718
55°	6714	7251	7605
60°	6591	7062	7442
65°	6386	6797	7184
70°	6017	6404	6736
75°	5524	5864	6145
80°	4798	5123	5305
85°	3844	3992	4196



TEST NUMBER: P253517

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.0
10°-20°	236.3	2.9
20°-30°	372.1	4.6
30°-40°	465.0	5.8
40°-50°	495.6	6.2
50°-60°	457.0	5.7
60°-70°	351.0	4.4
70°-80°	198.9	2.5
80°-90°	52.4	0.7
90°-100°	84.4	1.0
100°-110°	397.3	4.9
110°-120°	720.2	8.9
120°-130°	925.1	11.5
130°-140°	984.1	12.2
140°-150°	905.5	11.2
150°-160°	717.0	8.9
160°-170°	455.2	5.7
170°-180°	156.1	1.9
0°-30°	688.8	8.6
0°-40°	1153.7	14.3
0°-60°	2106.4	26.2
0°-90°	2708.7	33.6
90°-120°	1201.9	14.9
90°-150°	4016.6	49.9
90°-180°	5345.0	66.4
0°-180°	8053.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	848	840	844	842	837	81
15°	826	822	833	848	851	233
25°	779	781	812	828	835	359
35°	703	716	750	768	779	439
45°	600	616	647	667	680	463
55°	477	491	515	532	540	426
65°	334	342	356	369	376	330
75°	177	181	188	195	197	188
85°	42	43	43	45	45	47
90°	2	2	2	0	0	5
95°	56	58	63	67	70	73
105°	333	347	380	403	414	352
115°	650	678	735	781	803	642
125°	940	969	1043	1100	1131	839
135°	1186	1204	1285	1341	1374	914
145°	1388	1383	1453	1498	1525	869
155°	1534	1513	1552	1585	1603	708
165°	1629	1603	1603	1608	1614	460
175°	1672	1652	1641	1629	1616	159
180°	1650	1650	1650	1650	1650	



TEST NUMBER: P253517

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.1	842.1	842.1	842.1	842.1
2.5°	849.5	842.1	844.0	844.0	833.1
5°	847.6	840.2	844.0	842.1	836.6
7.5°	844.0	838.6	844.0	844.0	840.2
10°	840.2	835.0	840.2	842.1	840.2
12.5°	835.0	829.6	838.6	842.1	844.0
15°	825.7	822.2	833.1	847.6	851.4
17.5°	817.0	815.1	831.5	847.6	849.5
20°	804.2	804.2	829.6	842.1	844.0
22.5°	793.6	793.6	822.2	835.0	842.1
25°	779.1	780.7	811.6	828.0	835.0
27.5°	762.7	768.2	798.7	817.0	824.1
30°	744.7	753.7	786.2	804.2	813.5
32.5°	723.2	735.4	768.2	786.2	795.2
35°	702.9	715.8	749.9	768.2	779.1
37.5°	677.9	693.9	728.3	746.3	759.2
40°	654.4	670.8	702.9	723.2	735.4
42.5°	627.1	645.1	675.9	695.9	708.4
45°	600.1	616.2	647.0	666.9	679.5
47.5°	571.2	587.5	618.4	636.4	648.6
50°	540.3	558.3	585.6	603.6	614.5
52.5°	509.4	525.8	551.2	569.5	580.2
55°	477.0	491.4	515.2	531.6	540.3
57.5°	442.6	457.1	477.0	493.4	502.4
60°	408.2	419.1	437.4	453.5	460.9
62.5°	372.2	381.5	397.6	410.4	419.1
65°	334.3	341.7	355.8	368.7	376.1
67.5°	294.7	301.8	314.3	325.3	330.7
70°	254.9	262.0	271.3	280.0	285.4
72.5°	216.6	220.5	229.5	236.9	240.4
75°	177.1	180.6	188.0	195.1	197.0
77.5°	141.1	142.7	148.5	152.0	153.6
80°	103.2	106.7	110.2	111.9	114.1
82.5°	70.4	72.3	73.9	75.9	77.5
85°	41.5	43.1	43.1	45.3	45.3
87.5°	18.0	19.9	19.9	19.9	19.9
90°	1.9	1.9	1.9	0.0	0.0
92.5°	18.0	18.0	19.9	21.5	23.5
95°	55.9	57.9	63.3	66.9	70.4
97.5°	111.9	115.7	126.3	135.6	139.2
100°	180.6	188.0	204.4	216.6	222.4
102.5°	254.9	265.5	289.3	307.3	316.3
105°	332.7	347.1	379.6	403.1	414.0
107.5°	412.1	430.4	471.8	498.8	513.3
110°	491.4	515.2	560.2	596.2	607.2



TEST NUMBER: P253517

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.2	596.2	650.5	690.4	710.3
115°	650.5	677.9	735.4	780.7	802.6
117.5°	726.7	755.3	818.6	869.4	889.0
120°	798.7	829.6	898.4	950.7	974.2
122.5°	871.0	900.3	972.3	1028.2	1057.5
125°	939.8	968.7	1043.0	1100.5	1131.4
127.5°	1005.1	1031.7	1109.8	1169.3	1198.2
130°	1068.1	1093.5	1172.8	1231.0	1263.5
132.5°	1127.8	1151.3	1231.0	1286.9	1321.3
135°	1185.7	1203.7	1285.0	1340.9	1373.7
137.5°	1239.7	1252.6	1332.3	1388.2	1419.1
140°	1294.0	1297.9	1375.3	1427.7	1460.2
142.5°	1342.9	1340.9	1415.2	1465.7	1496.5
145°	1388.2	1382.7	1453.1	1498.1	1525.4
147.5°	1431.3	1419.1	1485.6	1523.8	1548.9
150°	1469.2	1453.1	1511.0	1548.9	1570.4
152.5°	1501.7	1483.7	1532.5	1566.9	1588.4
155°	1534.4	1512.9	1552.4	1584.9	1603.2
157.5°	1563.4	1536.0	1566.9	1595.8	1610.6
160°	1588.4	1561.8	1581.4	1603.2	1614.2
162.5°	1610.6	1583.3	1592.3	1604.8	1614.2
165°	1628.6	1603.2	1603.2	1608.4	1614.2
167.5°	1642.8	1621.2	1610.6	1612.2	1614.2
170°	1655.6	1633.8	1622.8	1612.2	1610.6
172.5°	1664.6	1642.8	1633.8	1619.3	1608.4
175°	1671.7	1652.1	1640.8	1628.6	1615.8
177.5°	1673.6	1657.2	1648.2	1635.7	1624.8
180°	1650.1	1650.1	1650.1	1650.1	1650.1

(END OF REPORT)