

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: P253506

Luminaire Tested: **J3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253506
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-20L83050-1D-UNV-W2A-W-4 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2245.2 lumens
Efficiency: N/A
Efficacy: 138.6 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

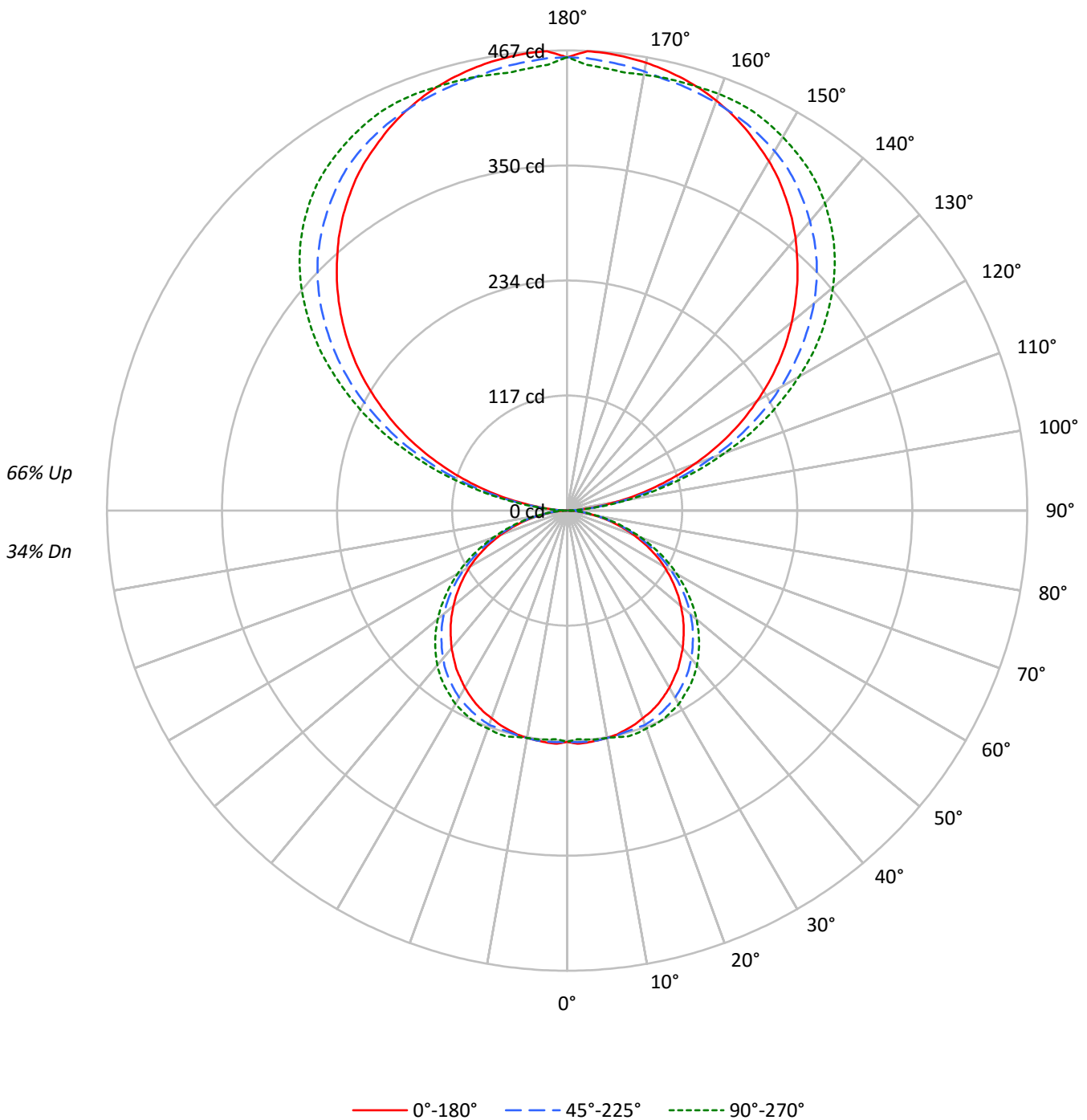
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253506

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253506

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

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°	1896	1896	1896
5°	1915	1907	1890
10°	1920	1920	1920
15°	1924	1941	1984
20°	1926	1987	2021
25°	1935	2015	2074
30°	1935	2043	2114
35°	1932	2060	2141
40°	1922	2066	2160
45°	1910	2060	2162
50°	1891	2051	2151
55°	1872	2021	2120
60°	1837	1968	2075
65°	1780	1895	2002
70°	1678	1784	1879
75°	1541	1634	1712
80°	1339	1427	1478
85°	1074	1112	1167



TEST NUMBER: P253506

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	1.0
10°-20°	65.9	2.9
20°-30°	103.7	4.6
30°-40°	129.6	5.8
40°-50°	138.2	6.2
50°-60°	127.4	5.7
60°-70°	97.8	4.4
70°-80°	55.4	2.5
80°-90°	14.6	0.7
90°-100°	23.5	1.0
100°-110°	110.8	4.9
110°-120°	200.8	8.9
120°-130°	257.9	11.5
130°-140°	274.4	12.2
140°-150°	252.4	11.2
150°-160°	199.9	8.9
160°-170°	126.9	5.7
170°-180°	43.5	1.9
0°-30°	192.0	8.6
0°-40°	321.6	14.3
0°-60°	587.2	26.2
0°-90°	755.1	33.6
90°-120°	335.1	14.9
90°-150°	1119.7	49.9
90°-180°	1490.0	66.4
0°-180°	2245.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	235	235	235	235	235	
5°	236	234	235	235	233	22
15°	230	229	232	236	237	65
25°	217	218	226	231	233	100
35°	196	200	209	214	217	122
45°	167	172	180	186	189	129
55°	133	137	144	148	151	119
65°	93	95	99	103	105	92
75°	49	50	52	54	55	52
85°	12	12	12	13	13	13
90°	0	0	0	0	0	2
95°	16	16	18	19	20	20
105°	93	97	106	112	115	98
115°	181	189	205	218	224	179
125°	262	270	291	307	315	234
135°	330	336	358	374	383	255
145°	387	386	405	418	425	242
155°	428	422	433	442	447	197
165°	454	447	447	448	450	128
175°	466	461	457	454	450	44
180°	460	460	460	460	460	



TEST NUMBER: P253506

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	234.8	234.8	234.8	234.8	234.8
2.5°	236.8	234.8	235.3	235.3	232.2
5°	236.3	234.2	235.3	234.8	233.2
7.5°	235.3	233.8	235.3	235.3	234.2
10°	234.2	232.8	234.2	234.8	234.2
12.5°	232.8	231.3	233.8	234.8	235.3
15°	230.2	229.2	232.2	236.3	237.4
17.5°	227.8	227.2	231.8	236.3	236.8
20°	224.2	224.2	231.3	234.8	235.3
22.5°	221.2	221.2	229.2	232.8	234.8
25°	217.2	217.6	226.2	230.8	232.8
27.5°	212.6	214.1	222.7	227.8	229.7
30°	207.6	210.1	219.2	224.2	226.8
32.5°	201.6	205.0	214.1	219.2	221.7
35°	196.0	199.5	209.0	214.1	217.2
37.5°	189.0	193.5	203.0	208.1	211.6
40°	182.4	187.0	196.0	201.6	205.0
42.5°	174.8	179.8	188.4	194.0	197.5
45°	167.3	171.8	180.4	185.9	189.4
47.5°	159.2	163.8	172.4	177.4	180.8
50°	150.6	155.6	163.3	168.3	171.3
52.5°	142.0	146.6	153.7	158.8	161.7
55°	133.0	137.0	143.6	148.2	150.6
57.5°	123.4	127.4	133.0	137.5	140.0
60°	113.8	116.8	121.9	126.4	128.5
62.5°	103.8	106.4	110.8	114.4	116.8
65°	93.2	95.2	99.2	102.8	104.8
67.5°	82.2	84.1	87.6	90.7	92.2
70°	71.1	73.0	75.6	78.0	79.6
72.5°	60.4	61.5	64.0	66.0	67.0
75°	49.4	50.4	52.4	54.4	54.9
77.5°	39.3	39.8	41.4	42.4	42.8
80°	28.8	29.7	30.7	31.2	31.8
82.5°	19.6	20.2	20.6	21.1	21.6
85°	11.6	12.0	12.0	12.6	12.6
87.5°	5.0	5.6	5.6	5.6	5.6
90°	0.5	0.5	0.5	0.0	0.0
92.5°	5.0	5.0	5.6	6.0	6.5
95°	15.6	16.1	17.7	18.6	19.6
97.5°	31.2	32.3	35.2	37.8	38.8
100°	50.4	52.4	57.0	60.4	62.0
102.5°	71.1	74.0	80.6	85.7	88.2
105°	92.7	96.8	105.8	112.4	115.4
107.5°	114.9	120.0	131.5	139.1	143.1
110°	137.0	143.6	156.2	166.2	169.3



TEST NUMBER: P253506

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.2	166.2	181.4	192.5	198.0
115°	181.4	189.0	205.0	217.6	223.7
117.5°	202.6	210.6	228.2	242.4	247.8
120°	222.7	231.3	250.4	265.0	271.6
122.5°	242.8	251.0	271.0	286.6	294.8
125°	262.0	270.1	290.8	306.8	315.4
127.5°	280.2	287.6	309.4	326.0	334.0
130°	297.7	304.8	327.0	343.2	352.2
132.5°	314.4	321.0	343.2	358.8	368.4
135°	330.5	335.6	358.2	373.8	383.0
137.5°	345.6	349.2	371.4	387.0	395.6
140°	360.7	361.8	383.4	398.0	407.1
142.5°	374.4	373.8	394.5	408.6	417.2
145°	387.0	385.5	405.1	417.6	425.3
147.5°	399.0	395.6	414.1	424.8	431.8
150°	409.6	405.1	421.2	431.8	437.8
152.5°	418.6	413.6	427.2	436.8	442.8
155°	427.8	421.8	432.8	441.8	446.9
157.5°	435.8	428.2	436.8	444.9	449.0
160°	442.8	435.4	440.8	446.9	450.0
162.5°	449.0	441.4	443.9	447.4	450.0
165°	454.0	446.9	446.9	448.4	450.0
167.5°	458.0	452.0	449.0	449.4	450.0
170°	461.5	455.4	452.4	449.4	449.0
172.5°	464.0	458.0	455.4	451.4	448.4
175°	466.0	460.6	457.4	454.0	450.4
177.5°	466.6	462.0	459.5	456.0	452.9
180°	460.0	460.0	460.0	460.0	460.0

(END OF REPORT)