

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: P253518

Luminaire Tested: **J3-FL-20L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253518
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 (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: 2383.7 lumens
Efficiency: N/A
Efficacy: 140.2 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

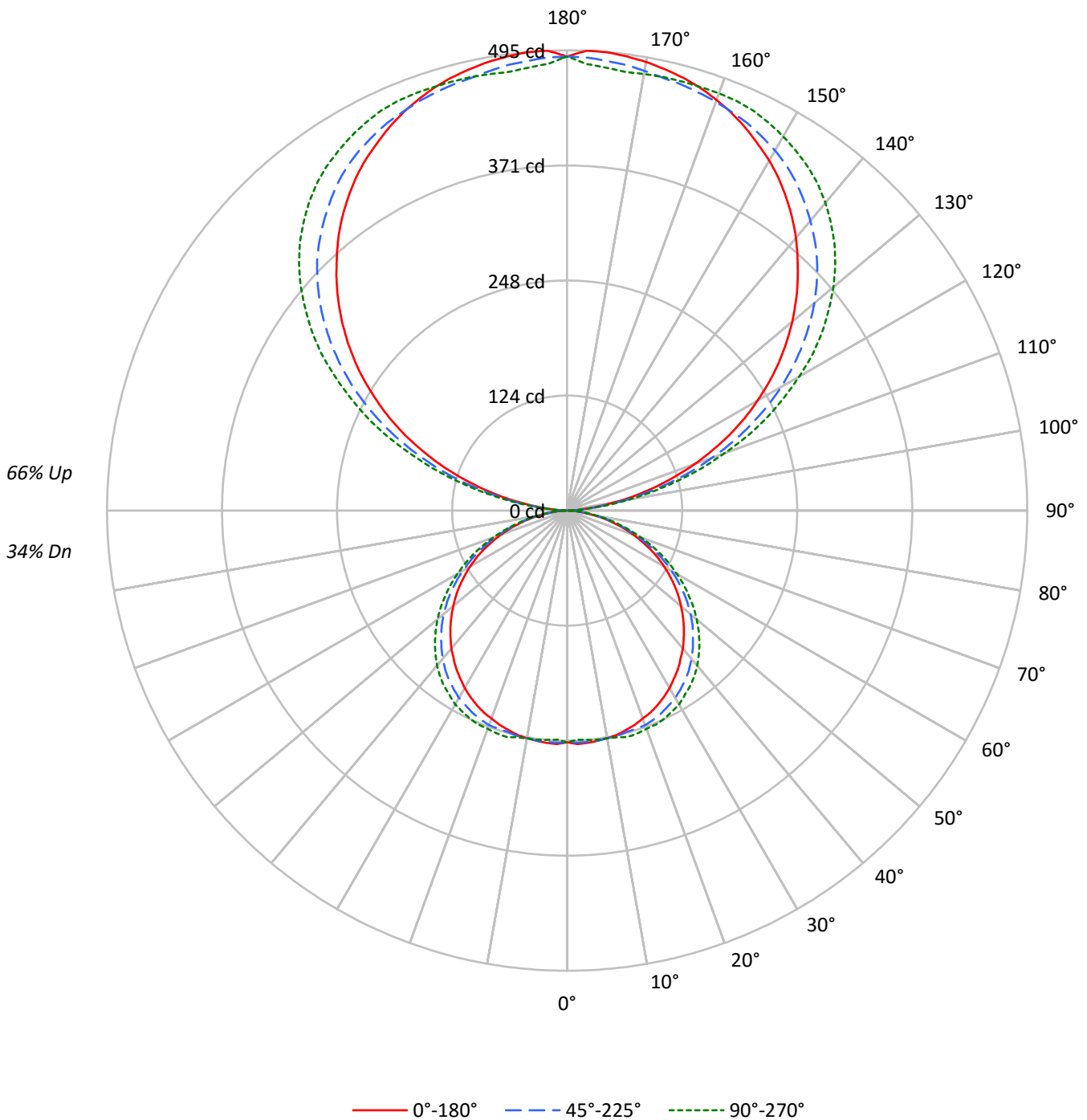
Input Watts (W): 17
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253518

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253518

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (4500K)

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°	2012	2012	2012
5°	2033	2024	2006
10°	2039	2039	2039
15°	2043	2061	2106
20°	2045	2109	2146
25°	2054	2140	2201
30°	2055	2169	2245
35°	2050	2187	2273
40°	2041	2192	2294
45°	2028	2186	2296
50°	2008	2177	2285
55°	1987	2146	2251
60°	1950	2091	2202
65°	1889	2011	2126
70°	1780	1895	1995
75°	1634	1737	1818
80°	1418	1516	1571
85°	1139	1176	1241



TEST NUMBER: P253518

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	1.0
10°-20°	69.9	2.9
20°-30°	110.1	4.6
30°-40°	137.6	5.8
40°-50°	146.7	6.2
50°-60°	135.3	5.7
60°-70°	103.9	4.4
70°-80°	58.9	2.5
80°-90°	15.5	0.7
90°-100°	25.0	1.0
100°-110°	117.6	4.9
110°-120°	213.1	8.9
120°-130°	273.8	11.5
130°-140°	291.3	12.2
140°-150°	268.0	11.2
150°-160°	212.2	8.9
160°-170°	134.7	5.7
170°-180°	46.2	1.9
0°-30°	203.9	8.6
0°-40°	341.5	14.3
0°-60°	623.4	26.2
0°-90°	801.7	33.6
90°-120°	355.7	14.9
90°-150°	1188.8	49.9
90°-180°	1582.0	66.4
0°-180°	2383.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	251	249	250	249	248	24
15°	244	243	247	251	252	69
25°	231	231	240	245	247	106
35°	208	212	222	227	231	130
45°	178	182	192	197	201	137
55°	141	146	152	157	160	126
65°	99	101	105	109	111	98
75°	52	54	56	58	58	56
85°	12	13	13	13	13	14
90°	1	1	1	0	0	2
95°	17	17	19	20	21	21
105°	98	103	112	119	122	104
115°	192	201	218	231	238	190
125°	278	287	309	326	335	248
135°	351	356	380	397	407	271
145°	411	409	430	443	452	257
155°	454	448	460	469	474	209
165°	482	474	474	476	478	136
175°	495	489	486	482	478	47
180°	488	488	488	488	488	



TEST NUMBER: P253518

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	249.2	249.2	249.2	249.2	249.2
2.5°	251.4	249.2	249.8	249.8	246.6
5°	250.9	248.7	249.8	249.2	247.6
7.5°	249.8	248.2	249.8	249.8	248.7
10°	248.7	247.1	248.7	249.2	248.7
12.5°	247.1	245.5	248.2	249.2	249.8
15°	244.4	243.3	246.6	250.9	252.0
17.5°	241.8	241.3	246.1	250.9	251.4
20°	238.0	238.0	245.5	249.2	249.8
22.5°	234.9	234.9	243.3	247.1	249.2
25°	230.6	231.1	240.2	245.1	247.1
27.5°	225.7	227.4	236.4	241.8	243.9
30°	220.4	223.1	232.7	238.0	240.8
32.5°	214.0	217.7	227.4	232.7	235.4
35°	208.0	211.9	221.9	227.4	230.6
37.5°	200.6	205.4	215.6	220.9	224.7
40°	193.7	198.5	208.0	214.0	217.7
42.5°	185.6	190.9	200.1	206.0	209.7
45°	177.6	182.4	191.5	197.4	201.1
47.5°	169.0	173.9	183.0	188.4	192.0
50°	159.9	165.2	173.3	178.7	181.9
52.5°	150.8	155.6	163.1	168.6	171.7
55°	141.2	145.5	152.5	157.3	159.9
57.5°	131.0	135.3	141.2	146.0	148.7
60°	120.8	124.0	129.5	134.2	136.4
62.5°	110.2	112.9	117.7	121.5	124.0
65°	98.9	101.1	105.3	109.1	111.3
67.5°	87.2	89.3	93.0	96.3	97.9
70°	75.4	77.5	80.3	82.9	84.5
72.5°	64.1	65.3	67.9	70.1	71.2
75°	52.4	53.5	55.7	57.7	58.3
77.5°	41.8	42.2	44.0	45.0	45.5
80°	30.5	31.6	32.6	33.1	33.8
82.5°	20.8	21.4	21.9	22.5	22.9
85°	12.3	12.7	12.7	13.4	13.4
87.5°	5.3	5.9	5.9	5.9	5.9
90°	0.6	0.6	0.6	0.0	0.0
92.5°	5.3	5.3	5.9	6.4	6.9
95°	16.6	17.1	18.7	19.8	20.8
97.5°	33.1	34.2	37.4	40.1	41.2
100°	53.5	55.7	60.5	64.1	65.8
102.5°	75.4	78.6	85.6	90.9	93.6
105°	98.5	102.7	112.3	119.3	122.5
107.5°	122.0	127.4	139.7	147.6	151.9
110°	145.5	152.5	165.8	176.5	179.7



TEST NUMBER: P253518

CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	169.0	176.5	192.5	204.3	210.2
115°	192.5	200.6	217.7	231.1	237.5
117.5°	215.1	223.6	242.3	257.3	263.1
120°	236.4	245.5	265.9	281.4	288.3
122.5°	257.8	266.5	287.8	304.3	313.0
125°	278.2	286.7	308.7	325.7	334.9
127.5°	297.5	305.4	328.5	346.1	354.6
130°	316.1	323.6	347.1	364.3	374.0
132.5°	333.8	340.8	364.3	380.9	391.1
135°	350.9	356.3	380.3	396.9	406.6
137.5°	366.9	370.7	394.3	410.9	420.0
140°	383.0	384.1	407.1	422.6	432.2
142.5°	397.5	396.9	418.9	433.8	442.9
145°	410.9	409.3	430.1	443.4	451.5
147.5°	423.6	420.0	439.7	451.0	458.4
150°	434.8	430.1	447.2	458.4	464.8
152.5°	444.4	439.1	453.6	463.8	470.1
155°	454.2	447.8	459.5	469.1	474.5
157.5°	462.7	454.6	463.8	472.3	476.7
160°	470.1	462.2	468.0	474.5	477.7
162.5°	476.7	468.6	471.3	475.0	477.7
165°	482.0	474.5	474.5	476.0	477.7
167.5°	486.2	479.8	476.7	477.2	477.7
170°	490.0	483.5	480.3	477.2	476.7
172.5°	492.7	486.2	483.5	479.3	476.0
175°	494.8	489.0	485.6	482.0	478.2
177.5°	495.3	490.5	487.8	484.1	480.9
180°	488.4	488.4	488.4	488.4	488.4

(END OF REPORT)