

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: P253512

Luminaire Tested: **J3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253512
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 (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: 2363.1 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.47
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

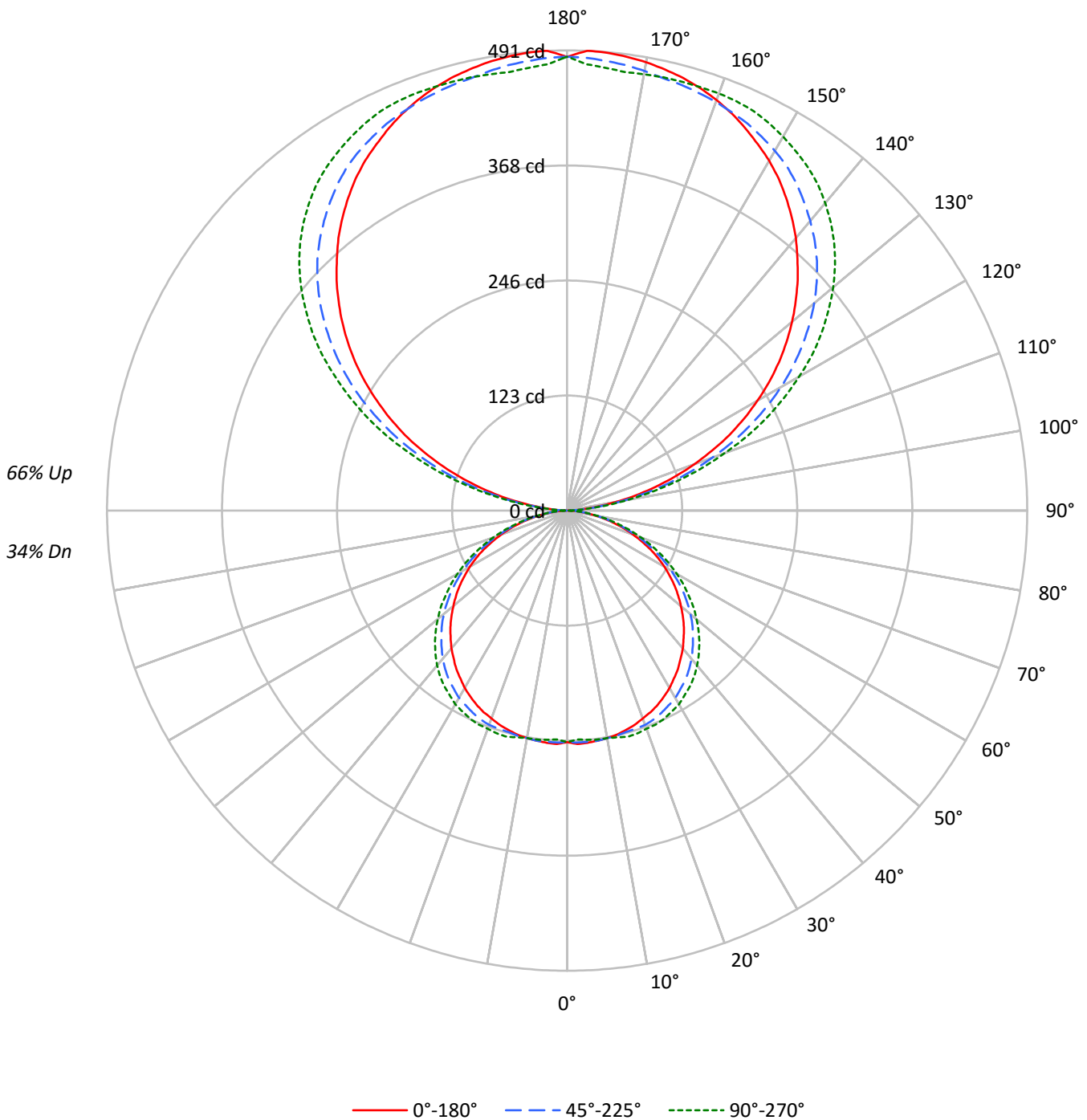
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1995	1995	1995
5°	2015	2007	1989
10°	2021	2021	2021
15°	2025	2043	2088
20°	2027	2091	2128
25°	2036	2121	2182
30°	2037	2151	2225
35°	2033	2168	2253
40°	2023	2174	2274
45°	2011	2167	2277
50°	1991	2158	2264
55°	1970	2128	2231
60°	1934	2073	2183
65°	1874	1994	2107
70°	1766	1879	1976
75°	1622	1722	1803
80°	1409	1502	1557
85°	1130	1167	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	1.0
10°-20°	69.3	2.9
20°-30°	109.2	4.6
30°-40°	136.4	5.8
40°-50°	145.4	6.2
50°-60°	134.1	5.7
60°-70°	103.0	4.4
70°-80°	58.4	2.5
80°-90°	15.4	0.7
90°-100°	24.8	1.0
100°-110°	116.6	4.9
110°-120°	211.3	8.9
120°-130°	271.4	11.5
130°-140°	288.7	12.2
140°-150°	265.7	11.2
150°-160°	210.4	8.9
160°-170°	133.6	5.7
170°-180°	45.8	1.9
0°-30°	202.1	8.6
0°-40°	338.5	14.3
0°-60°	618.1	26.2
0°-90°	794.8	33.6
90°-120°	352.7	14.9
90°-150°	1178.6	49.9
90°-180°	1568.0	66.4
0°-180°	2363.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	247	247	247	247	247	
5°	249	246	248	247	246	24
15°	242	241	244	249	250	68
25°	229	229	238	243	245	105
35°	206	210	220	225	229	129
45°	176	181	190	196	199	136
55°	140	144	151	156	158	125
65°	98	100	104	108	110	97
75°	52	53	55	57	58	55
85°	12	13	13	13	13	14
90°	1	1	1	0	0	2
95°	16	17	19	20	21	21
105°	98	102	111	118	122	103
115°	191	199	216	229	236	188
125°	276	284	306	323	332	246
135°	348	353	377	394	403	268
145°	407	406	426	440	448	255
155°	450	444	456	465	470	208
165°	478	470	470	472	474	135
175°	490	485	481	478	474	47
180°	484	484	484	484	484	



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CATALOG NUMBER: J3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	247.1	247.1	247.1	247.1	247.1
2.5°	249.3	247.1	247.7	247.7	244.4
5°	248.7	246.5	247.7	247.1	245.5
7.5°	247.7	246.1	247.7	247.7	246.5
10°	246.5	245.0	246.5	247.1	246.5
12.5°	245.0	243.4	246.1	247.1	247.7
15°	242.3	241.2	244.4	248.7	249.8
17.5°	239.7	239.2	244.0	248.7	249.3
20°	236.0	236.0	243.4	247.1	247.7
22.5°	232.8	232.8	241.2	245.0	247.1
25°	228.6	229.1	238.1	242.9	245.0
27.5°	223.8	225.4	234.4	239.7	241.8
30°	218.5	221.2	230.7	236.0	238.7
32.5°	212.2	215.8	225.4	230.7	233.3
35°	206.3	210.0	220.0	225.4	228.6
37.5°	198.9	203.6	213.7	219.0	222.8
40°	192.0	196.8	206.3	212.2	215.8
42.5°	184.0	189.3	198.3	204.2	207.9
45°	176.1	180.8	189.8	195.7	199.4
47.5°	167.6	172.4	181.4	186.7	190.3
50°	158.5	163.8	171.8	177.1	180.3
52.5°	149.5	154.3	161.7	167.1	170.2
55°	140.0	144.2	151.2	156.0	158.5
57.5°	129.9	134.1	140.0	144.8	147.4
60°	119.8	123.0	128.4	133.1	135.2
62.5°	109.2	111.9	116.7	120.4	123.0
65°	98.1	100.3	104.4	108.2	110.3
67.5°	86.5	88.6	92.2	95.4	97.0
70°	74.8	76.9	79.6	82.1	83.7
72.5°	63.6	64.7	67.3	69.5	70.5
75°	52.0	53.0	55.2	57.2	57.8
77.5°	41.4	41.9	43.6	44.6	45.1
80°	30.3	31.3	32.3	32.8	33.5
82.5°	20.7	21.2	21.7	22.3	22.7
85°	12.2	12.6	12.6	13.3	13.3
87.5°	5.3	5.8	5.8	5.8	5.8
90°	0.6	0.6	0.6	0.0	0.0
92.5°	5.3	5.3	5.8	6.3	6.9
95°	16.4	17.0	18.6	19.6	20.7
97.5°	32.8	34.0	37.1	39.8	40.8
100°	53.0	55.2	60.0	63.6	65.3
102.5°	74.8	77.9	84.9	90.2	92.8
105°	97.6	101.9	111.4	118.3	121.5
107.5°	120.9	126.3	138.4	146.4	150.6
110°	144.2	151.2	164.4	174.9	178.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	174.9	190.9	202.6	208.4
115°	190.9	198.9	215.8	229.1	235.5
117.5°	213.2	221.6	240.2	255.1	260.9
120°	234.4	243.4	263.6	279.0	285.8
122.5°	255.6	264.2	285.3	301.7	310.3
125°	275.8	284.2	306.0	322.9	332.0
127.5°	294.9	302.7	325.6	343.1	351.6
130°	313.4	320.8	344.1	361.2	370.7
132.5°	330.9	337.8	361.2	377.6	387.7
135°	347.9	353.2	377.0	393.5	403.1
137.5°	363.7	367.5	390.9	407.3	416.4
140°	379.7	380.8	403.5	418.9	428.4
142.5°	394.0	393.5	415.2	430.0	439.1
145°	407.3	405.7	426.4	439.6	447.6
147.5°	420.0	416.4	435.9	447.1	454.5
150°	431.1	426.4	443.3	454.5	460.8
152.5°	440.6	435.3	449.7	459.8	466.1
155°	450.2	443.9	455.5	465.0	470.4
157.5°	458.7	450.7	459.8	468.2	472.6
160°	466.1	458.2	464.0	470.4	473.6
162.5°	472.6	464.6	467.2	470.9	473.6
165°	477.9	470.4	470.4	471.9	473.6
167.5°	482.0	475.7	472.6	473.1	473.6
170°	485.8	479.4	476.2	473.1	472.6
172.5°	488.4	482.0	479.4	475.1	471.9
175°	490.5	484.7	481.4	477.9	474.1
177.5°	491.1	486.3	483.6	479.9	476.7
180°	484.2	484.2	484.2	484.2	484.2

(END OF REPORT)