

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: P253500

Luminaire Tested: **J3-FL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253500
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 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.9 lumens
Efficiency: N/A
Efficacy: 131.0 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

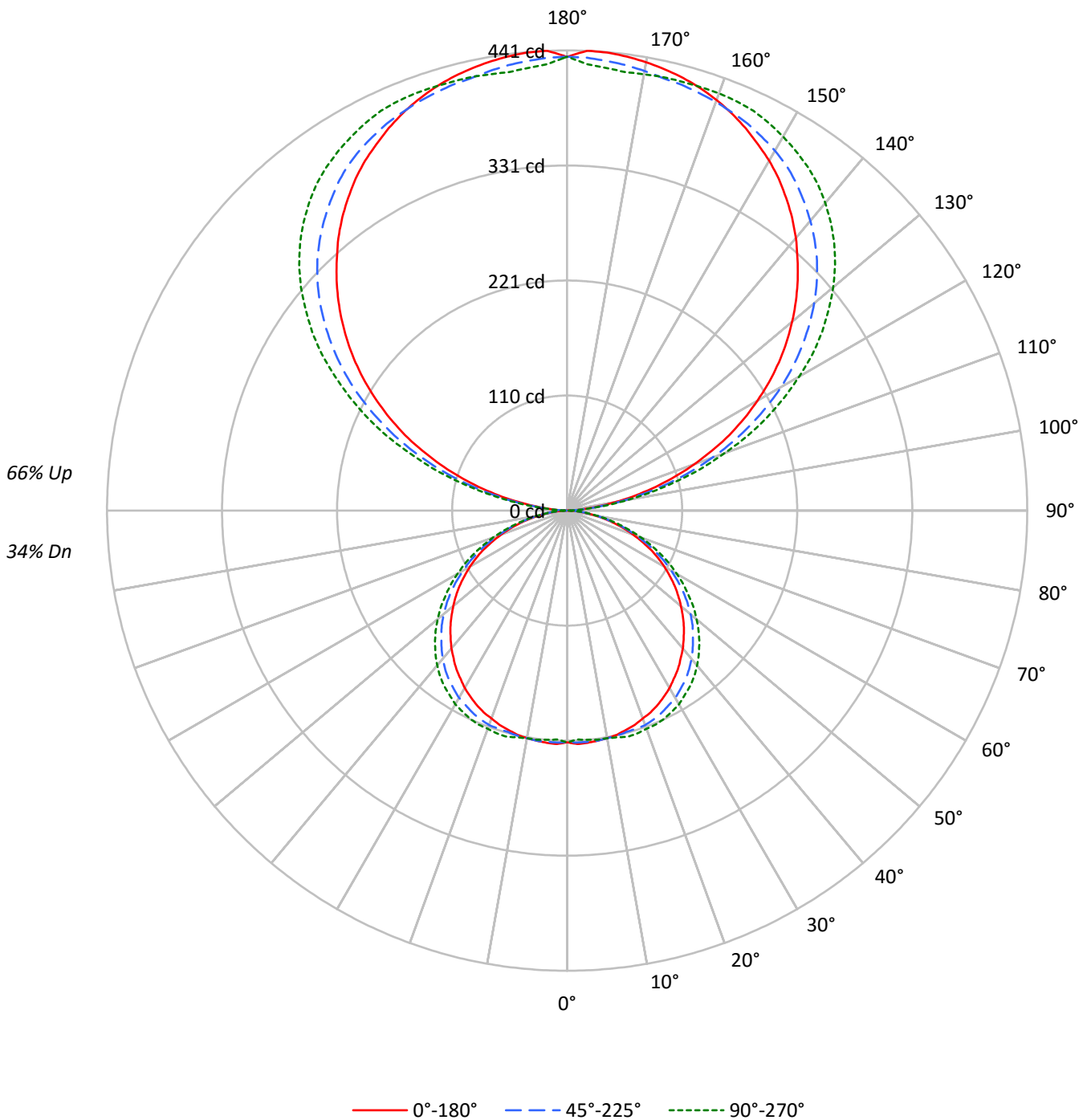
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1792	1792	1792
5°	1810	1803	1787
10°	1816	1816	1816
15°	1819	1835	1875
20°	1821	1879	1912
25°	1830	1905	1961
30°	1830	1931	1999
35°	1826	1947	2024
40°	1818	1953	2042
45°	1806	1947	2045
50°	1788	1939	2035
55°	1769	1911	2004
60°	1737	1862	1962
65°	1683	1792	1893
70°	1586	1688	1775
75°	1457	1547	1619
80°	1265	1353	1399
85°	1010	1056	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	1.0
10°-20°	62.3	2.9
20°-30°	98.1	4.6
30°-40°	122.6	5.8
40°-50°	130.6	6.2
50°-60°	120.5	5.7
60°-70°	92.5	4.4
70°-80°	52.4	2.5
80°-90°	13.8	0.7
90°-100°	22.3	1.0
100°-110°	104.7	4.9
110°-120°	189.8	8.9
120°-130°	243.8	11.5
130°-140°	259.4	12.2
140°-150°	238.7	11.2
150°-160°	189.0	8.9
160°-170°	120.0	5.7
170°-180°	41.2	1.9
0°-30°	181.6	8.6
0°-40°	304.1	14.3
0°-60°	555.2	26.2
0°-90°	714.0	33.6
90°-120°	316.8	14.9
90°-150°	1058.7	49.9
90°-180°	1409.0	66.4
0°-180°	2122.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	222	222	222	222	222	
5°	223	222	222	222	220	21
15°	218	217	220	223	224	62
25°	205	206	214	218	220	95
35°	185	189	198	202	205	116
45°	158	162	170	176	179	122
55°	126	130	136	140	142	112
65°	88	90	94	97	99	87
75°	47	48	50	51	52	50
85°	11	11	11	12	12	12
90°	0	0	0	0	0	1
95°	15	15	17	18	19	19
105°	88	92	100	106	109	93
115°	172	179	194	206	212	169
125°	248	255	275	290	298	221
135°	312	317	339	353	362	241
145°	366	364	383	395	402	229
155°	404	399	409	418	423	186
165°	429	423	423	424	426	121
175°	441	436	432	429	426	42
180°	435	435	435	435	435	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	222.0	222.0	222.0	222.0	222.0
2.5°	223.9	222.0	222.5	222.5	219.6
5°	223.4	221.5	222.5	222.0	220.5
7.5°	222.5	221.0	222.5	222.5	221.5
10°	221.5	220.1	221.5	222.0	221.5
12.5°	220.1	218.7	221.0	222.0	222.5
15°	217.6	216.7	219.6	223.4	224.4
17.5°	215.4	214.8	219.2	223.4	223.9
20°	212.0	212.0	218.7	222.0	222.5
22.5°	209.2	209.2	216.7	220.1	222.0
25°	205.4	205.8	213.9	218.2	220.1
27.5°	201.0	202.5	210.5	215.4	217.2
30°	196.3	198.7	207.2	212.0	214.4
32.5°	190.6	193.8	202.5	207.2	209.6
35°	185.3	188.7	197.6	202.5	205.4
37.5°	178.7	182.9	192.0	196.7	200.1
40°	172.5	176.8	185.3	190.6	193.8
42.5°	165.3	170.0	178.2	183.4	186.7
45°	158.2	162.4	170.5	175.8	179.1
47.5°	150.5	154.9	163.0	167.7	171.0
50°	142.4	147.2	154.4	159.1	162.0
52.5°	134.3	138.6	145.3	150.1	152.9
55°	125.7	129.5	135.8	140.1	142.4
57.5°	116.7	120.5	125.7	130.0	132.4
60°	107.6	110.5	115.3	119.5	121.5
62.5°	98.1	100.6	104.8	108.2	110.5
65°	88.1	90.1	93.8	97.2	99.1
67.5°	77.7	79.6	82.9	85.7	87.2
70°	67.2	69.0	71.5	73.8	75.2
72.5°	57.1	58.1	60.5	62.4	63.4
75°	46.7	47.6	49.6	51.4	51.9
77.5°	37.2	37.6	39.1	40.1	40.5
80°	27.2	28.1	29.1	29.5	30.1
82.5°	18.6	19.1	19.5	20.0	20.4
85°	10.9	11.4	11.4	11.9	11.9
87.5°	4.7	5.3	5.3	5.3	5.3
90°	0.5	0.5	0.5	0.0	0.0
92.5°	4.7	4.7	5.3	5.7	6.2
95°	14.7	15.2	16.7	17.6	18.6
97.5°	29.5	30.5	33.3	35.8	36.7
100°	47.6	49.6	53.9	57.1	58.6
102.5°	67.2	70.0	76.2	81.0	83.4
105°	87.7	91.5	100.1	106.2	109.1
107.5°	108.6	113.4	124.4	131.5	135.3
110°	129.5	135.8	147.7	157.2	160.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.5	157.2	171.5	182.0	187.2
115°	171.5	178.7	193.8	205.8	211.5
117.5°	191.5	199.1	215.8	229.2	234.3
120°	210.5	218.7	236.8	250.6	256.8
122.5°	229.6	237.3	256.3	271.0	278.7
125°	247.7	255.3	274.9	290.1	298.2
127.5°	264.9	271.9	292.5	308.2	315.8
130°	281.5	288.2	309.1	324.5	333.0
132.5°	297.3	303.5	324.5	339.2	348.3
135°	312.5	317.3	338.7	353.4	362.1
137.5°	326.8	330.1	351.2	365.9	374.0
140°	341.1	342.1	362.5	376.3	384.9
142.5°	354.0	353.4	373.0	386.3	394.5
145°	365.9	364.5	383.0	394.9	402.1
147.5°	377.3	374.0	391.6	401.7	408.3
150°	387.2	383.0	398.3	408.3	413.9
152.5°	395.8	391.1	403.9	413.0	418.7
155°	404.4	398.8	409.2	417.7	422.6
157.5°	412.1	404.9	413.0	420.6	424.5
160°	418.7	411.6	416.8	422.6	425.5
162.5°	424.5	417.3	419.7	423.0	425.5
165°	429.3	422.6	422.6	423.9	425.5
167.5°	433.0	427.3	424.5	424.9	425.5
170°	436.4	430.6	427.7	424.9	424.5
172.5°	438.8	433.0	430.6	426.8	423.9
175°	440.6	435.5	432.5	429.3	425.9
177.5°	441.1	436.8	434.4	431.1	428.3
180°	434.9	434.9	434.9	434.9	434.9

(END OF REPORT)