

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: P253542

Luminaire Tested: **J3-FL-20L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253542
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-20L93050-1D-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, 90 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2062.2 lumens
Efficiency: N/A
Efficacy: 124.2 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

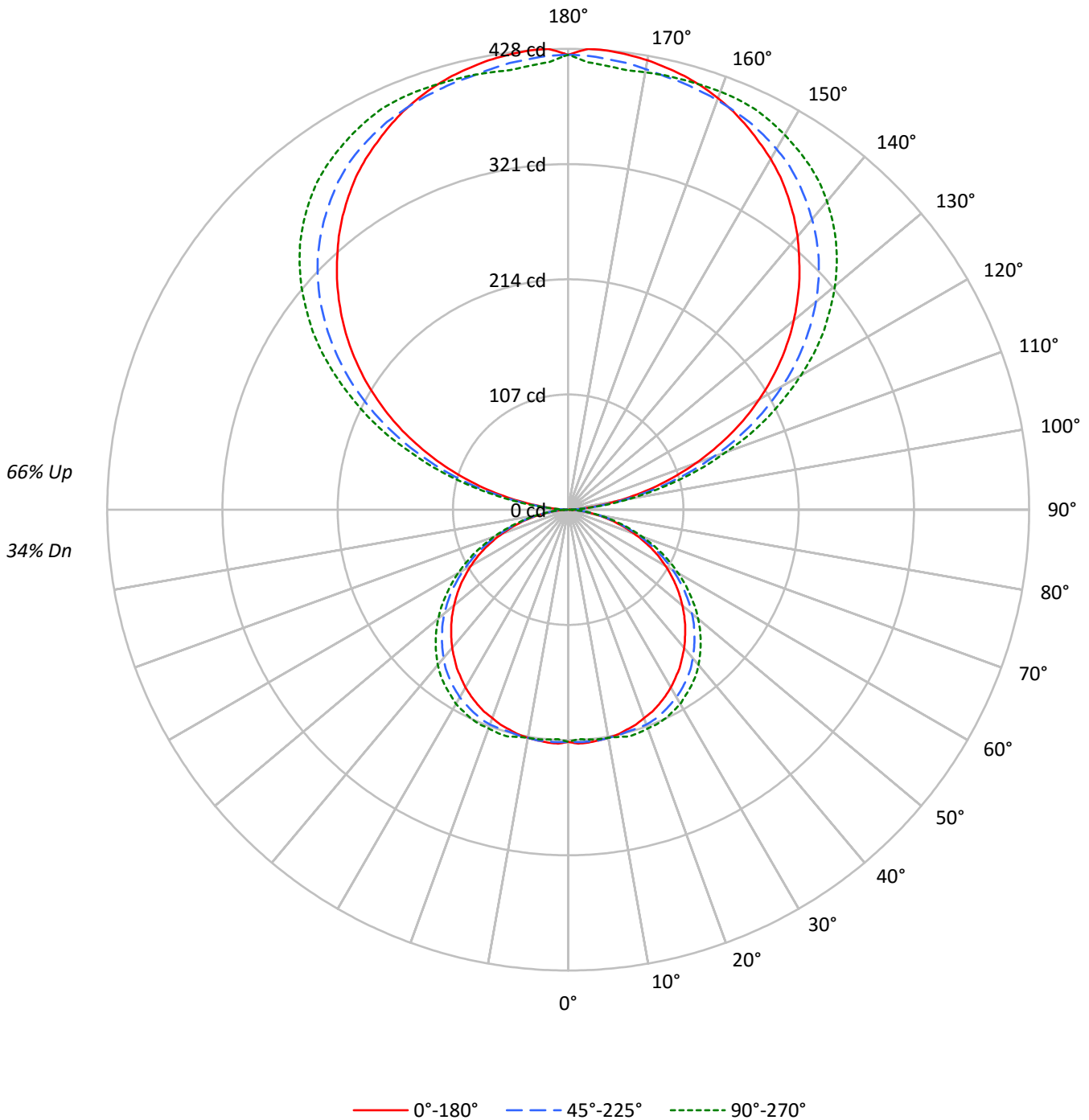
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1741	1741	1741
5°	1759	1751	1736
10°	1763	1763	1763
15°	1767	1783	1822
20°	1769	1825	1857
25°	1777	1851	1904
30°	1778	1876	1942
35°	1774	1892	1966
40°	1766	1897	1984
45°	1755	1892	1987
50°	1737	1884	1977
55°	1719	1856	1947
60°	1687	1808	1905
65°	1635	1740	1840
70°	1541	1640	1725
75°	1413	1500	1575
80°	1227	1311	1358
85°	982	1019	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.0
10°-20°	60.5	2.9
20°-30°	95.3	4.6
30°-40°	119.1	5.8
40°-50°	126.9	6.2
50°-60°	117.0	5.7
60°-70°	89.9	4.4
70°-80°	50.9	2.5
80°-90°	13.4	0.7
90°-100°	21.6	1.0
100°-110°	101.7	4.9
110°-120°	184.4	8.9
120°-130°	236.9	11.5
130°-140°	252.0	12.2
140°-150°	231.9	11.2
150°-160°	183.6	8.9
160°-170°	116.6	5.7
170°-180°	40.0	1.9
0°-30°	176.3	8.6
0°-40°	295.4	14.3
0°-60°	539.3	26.2
0°-90°	693.6	33.6
90°-120°	307.8	14.9
90°-150°	1028.5	49.9
90°-180°	1369.0	66.4
0°-180°	2062.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	216	216	216	216	216	
5°	217	215	216	216	214	21
15°	211	210	213	217	218	60
25°	200	200	208	212	214	92
35°	180	183	192	197	200	112
45°	154	158	166	171	174	118
55°	122	126	132	136	138	109
65°	86	88	91	94	96	84
75°	45	46	48	50	50	48
85°	11	11	11	12	12	12
90°	0	0	0	0	0	1
95°	14	15	16	17	18	19
105°	85	89	97	103	106	90
115°	167	174	188	200	206	164
125°	241	248	267	282	290	215
135°	304	308	329	343	352	234
145°	356	354	372	384	391	222
155°	393	387	398	406	410	181
165°	417	410	410	412	413	118
175°	428	423	420	417	414	41
180°	422	422	422	422	422	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	215.6	215.6	215.6	215.6	215.6
2.5°	217.5	215.6	216.1	216.1	213.3
5°	217.0	215.1	216.1	215.6	214.2
7.5°	216.1	214.7	216.1	216.1	215.1
10°	215.1	213.8	215.1	215.6	215.1
12.5°	213.8	212.4	214.7	215.6	216.1
15°	211.4	210.5	213.3	217.0	218.0
17.5°	209.2	208.7	212.9	217.0	217.5
20°	205.9	205.9	212.4	215.6	216.1
22.5°	203.2	203.2	210.5	213.8	215.6
25°	199.5	199.9	207.8	212.0	213.8
27.5°	195.3	196.7	204.5	209.2	211.0
30°	190.7	193.0	201.3	205.9	208.3
32.5°	185.2	188.3	196.7	201.3	203.6
35°	180.0	183.3	192.0	196.7	199.5
37.5°	173.6	177.7	186.5	191.1	194.4
40°	167.6	171.8	180.0	185.2	188.3
42.5°	160.6	165.2	173.1	178.2	181.4
45°	153.7	157.8	165.7	170.8	174.0
47.5°	146.2	150.4	158.3	163.0	166.1
50°	138.3	143.0	150.0	154.6	157.4
52.5°	130.4	134.6	141.1	145.8	148.6
55°	122.1	125.8	131.9	136.1	138.3
57.5°	113.3	117.0	122.1	126.3	128.6
60°	104.5	107.3	112.0	116.1	118.0
62.5°	95.3	97.7	101.8	105.1	107.3
65°	85.6	87.5	91.1	94.4	96.3
67.5°	75.5	77.3	80.5	83.3	84.7
70°	65.3	67.1	69.5	71.7	73.1
72.5°	55.5	56.5	58.8	60.7	61.6
75°	45.3	46.3	48.1	50.0	50.5
77.5°	36.1	36.5	38.0	38.9	39.3
80°	26.4	27.3	28.2	28.6	29.2
82.5°	18.0	18.5	18.9	19.4	19.8
85°	10.6	11.0	11.0	11.6	11.6
87.5°	4.6	5.1	5.1	5.1	5.1
90°	0.5	0.5	0.5	0.0	0.0
92.5°	4.6	4.6	5.1	5.5	6.0
95°	14.3	14.8	16.2	17.1	18.0
97.5°	28.6	29.6	32.3	34.7	35.6
100°	46.3	48.1	52.3	55.5	57.0
102.5°	65.3	68.0	74.1	78.7	81.0
105°	85.2	88.9	97.2	103.2	106.0
107.5°	105.5	110.2	120.8	127.7	131.4
110°	125.8	131.9	143.4	152.7	155.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	152.7	166.6	176.8	181.9
115°	166.6	173.6	188.3	199.9	205.5
117.5°	186.1	193.4	209.6	222.6	227.6
120°	204.5	212.4	230.0	243.4	249.5
122.5°	223.0	230.5	249.0	263.3	270.8
125°	240.6	248.1	267.1	281.8	289.7
127.5°	257.4	264.2	284.2	299.4	306.8
130°	273.5	280.0	300.3	315.2	323.5
132.5°	288.8	294.8	315.2	329.5	338.3
135°	303.6	308.2	329.0	343.4	351.8
137.5°	317.4	320.7	341.1	355.5	363.4
140°	331.3	332.3	352.2	365.6	373.9
142.5°	343.9	343.4	362.4	375.3	383.2
145°	355.5	354.1	372.1	383.6	390.6
147.5°	366.5	363.4	380.4	390.2	396.6
150°	376.2	372.1	386.9	396.6	402.1
152.5°	384.5	379.9	392.4	401.2	406.7
155°	392.9	387.4	397.5	405.8	410.5
157.5°	400.3	393.3	401.2	408.6	412.4
160°	406.7	399.9	404.9	410.5	413.3
162.5°	412.4	405.4	407.7	410.9	413.3
165°	417.0	410.5	410.5	411.8	413.3
167.5°	420.6	415.1	412.4	412.8	413.3
170°	423.9	418.3	415.5	412.8	412.4
172.5°	426.2	420.6	418.3	414.6	411.8
175°	428.0	423.0	420.1	417.0	413.7
177.5°	428.5	424.3	422.0	418.8	416.0
180°	422.5	422.5	422.5	422.5	422.5

(END OF REPORT)