

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: P253548

Luminaire Tested: **J3-FL-20L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253548
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2097.0 lumens
Efficiency: N/A
Efficacy: 124.1 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

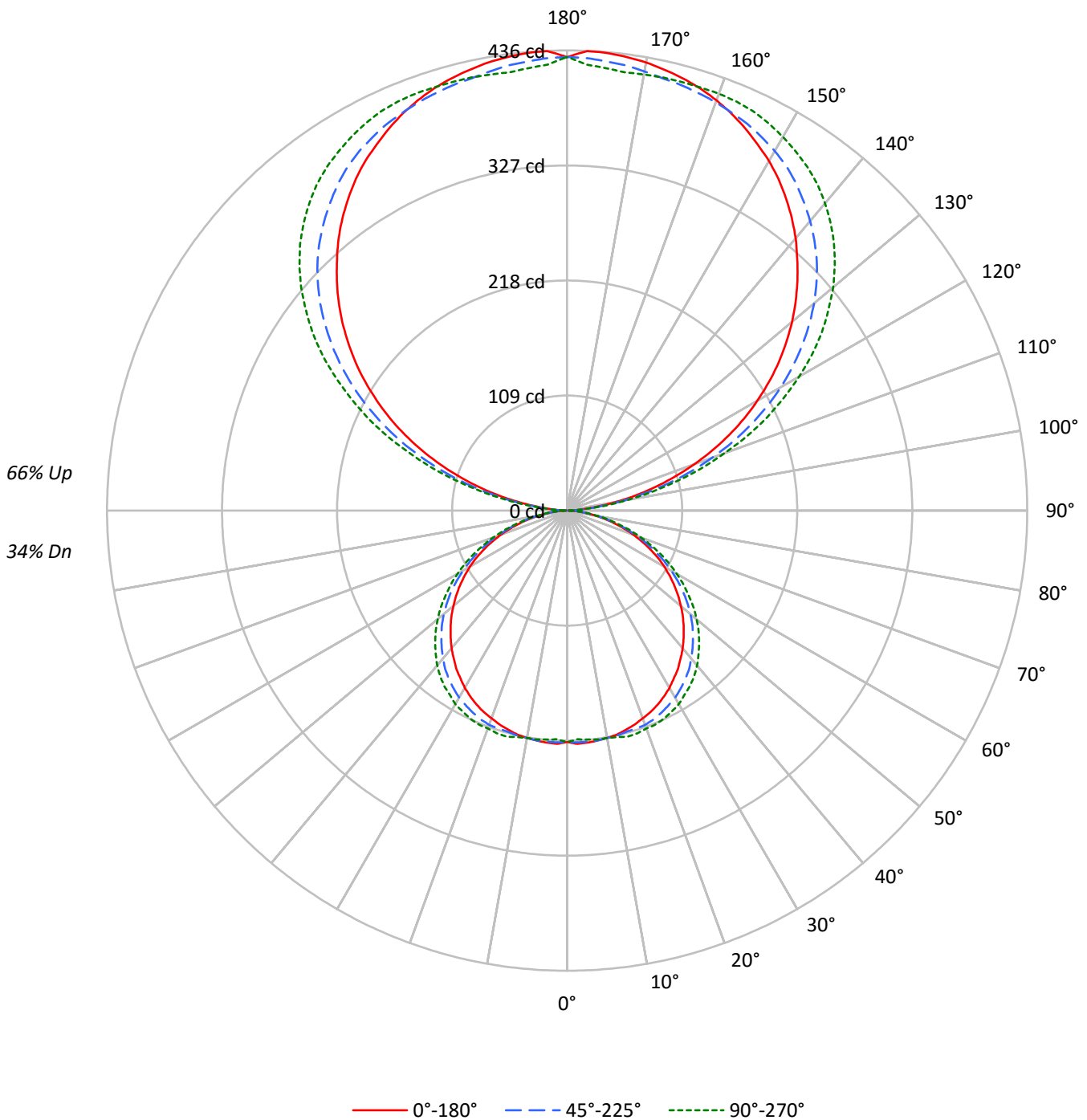
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1770	1770	1770
5°	1789	1781	1765
10°	1794	1794	1794
15°	1797	1813	1853
20°	1799	1856	1888
25°	1807	1882	1936
30°	1808	1908	1974
35°	1804	1924	2000
40°	1796	1929	2018
45°	1783	1924	2020
50°	1767	1915	2009
55°	1748	1889	1980
60°	1716	1839	1938
65°	1662	1769	1870
70°	1567	1666	1754
75°	1438	1528	1600
80°	1251	1334	1381
85°	1000	1037	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	1.0
10°-20°	61.5	2.9
20°-30°	96.9	4.6
30°-40°	121.1	5.8
40°-50°	129.1	6.2
50°-60°	119.0	5.7
60°-70°	91.4	4.4
70°-80°	51.8	2.5
80°-90°	13.6	0.7
90°-100°	22.0	1.0
100°-110°	103.5	4.9
110°-120°	187.5	8.9
120°-130°	240.9	11.5
130°-140°	256.2	12.2
140°-150°	235.8	11.2
150°-160°	186.7	8.9
160°-170°	118.5	5.7
170°-180°	40.7	1.9
0°-30°	179.3	8.6
0°-40°	300.4	14.3
0°-60°	548.5	26.2
0°-90°	705.3	33.6
90°-120°	313.0	14.9
90°-150°	1045.8	49.9
90°-180°	1392.0	66.4
0°-180°	2097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	219	219	219	219	219	
5°	221	219	220	219	218	21
15°	215	214	217	221	222	61
25°	203	203	211	216	217	93
35°	183	186	195	200	203	114
45°	156	160	168	174	177	120
55°	124	128	134	138	141	111
65°	87	89	93	96	98	86
75°	46	47	49	51	51	49
85°	11	11	11	12	12	12
90°	0	0	0	0	0	1
95°	15	15	16	17	18	19
105°	87	90	99	105	108	92
115°	169	176	192	203	209	167
125°	245	252	272	286	295	218
135°	309	313	335	349	358	238
145°	361	360	378	390	397	226
155°	400	394	404	413	417	184
165°	424	417	417	419	420	120
175°	435	430	427	424	421	41
180°	430	430	430	430	430	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	219.3	219.3	219.3	219.3	219.3
2.5°	221.2	219.3	219.8	219.8	216.9
5°	220.7	218.8	219.8	219.3	217.8
7.5°	219.8	218.3	219.8	219.8	218.8
10°	218.8	217.4	218.8	219.3	218.8
12.5°	217.4	216.0	218.3	219.3	219.8
15°	215.0	214.1	216.9	220.7	221.7
17.5°	212.7	212.2	216.5	220.7	221.2
20°	209.4	209.4	216.0	219.3	219.8
22.5°	206.6	206.6	214.1	217.4	219.3
25°	202.9	203.3	211.3	215.6	217.4
27.5°	198.6	200.0	208.0	212.7	214.6
30°	193.9	196.2	204.7	209.4	211.8
32.5°	188.3	191.5	200.0	204.7	207.0
35°	183.0	186.4	195.2	200.0	202.9
37.5°	176.5	180.7	189.6	194.3	197.7
40°	170.4	174.7	183.0	188.3	191.5
42.5°	163.3	168.0	176.0	181.2	184.4
45°	156.2	160.4	168.5	173.7	176.9
47.5°	148.7	153.0	161.0	165.7	168.9
50°	140.7	145.4	152.5	157.2	160.0
52.5°	132.6	136.9	143.5	148.3	151.1
55°	124.2	128.0	134.2	138.4	140.7
57.5°	115.2	119.0	124.2	128.5	130.8
60°	106.3	109.1	113.9	118.1	120.0
62.5°	96.9	99.3	103.5	106.9	109.1
65°	87.0	89.0	92.6	96.0	97.9
67.5°	76.7	78.6	81.8	84.7	86.1
70°	66.4	68.2	70.6	72.9	74.3
72.5°	56.4	57.4	59.8	61.7	62.6
75°	46.1	47.0	49.0	50.8	51.3
77.5°	36.7	37.2	38.7	39.6	40.0
80°	26.9	27.8	28.7	29.1	29.7
82.5°	18.3	18.8	19.2	19.8	20.2
85°	10.8	11.2	11.2	11.8	11.8
87.5°	4.7	5.2	5.2	5.2	5.2
90°	0.5	0.5	0.5	0.0	0.0
92.5°	4.7	4.7	5.2	5.6	6.1
95°	14.6	15.1	16.5	17.4	18.3
97.5°	29.1	30.1	32.9	35.3	36.2
100°	47.0	49.0	53.2	56.4	57.9
102.5°	66.4	69.1	75.3	80.0	82.3
105°	86.6	90.4	98.8	104.9	107.8
107.5°	107.3	112.1	122.9	129.9	133.6
110°	128.0	134.2	145.9	155.2	158.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.7	155.2	169.4	179.8	184.9
115°	169.4	176.5	191.5	203.3	209.0
117.5°	189.2	196.7	213.2	226.4	231.5
120°	208.0	216.0	233.9	247.5	253.7
122.5°	226.8	234.4	253.2	267.7	275.3
125°	244.7	252.2	271.6	286.5	294.6
127.5°	261.7	268.6	289.0	304.5	312.0
130°	278.1	284.7	305.4	320.5	329.0
132.5°	293.7	299.8	320.5	335.1	344.0
135°	308.7	313.4	334.6	349.1	357.7
137.5°	322.8	326.1	346.9	361.4	369.5
140°	336.9	337.9	358.1	371.7	380.2
142.5°	349.6	349.1	368.5	381.6	389.6
145°	361.4	360.0	378.3	390.1	397.2
147.5°	372.7	369.5	386.8	396.8	403.3
150°	382.5	378.3	393.4	403.3	408.9
152.5°	391.0	386.3	399.0	408.0	413.6
155°	399.5	393.9	404.2	412.7	417.4
157.5°	407.1	399.9	408.0	415.5	419.4
160°	413.6	406.6	411.7	417.4	420.3
162.5°	419.4	412.2	414.6	417.9	420.3
165°	424.0	417.4	417.4	418.8	420.3
167.5°	427.7	422.1	419.4	419.8	420.3
170°	431.1	425.4	422.5	419.8	419.4
172.5°	433.4	427.7	425.4	421.6	418.8
175°	435.3	430.2	427.2	424.0	420.7
177.5°	435.8	431.5	429.1	425.9	423.0
180°	429.7	429.7	429.7	429.7	429.7

(END OF REPORT)