

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: P253349

Luminaire Tested: **J3-FL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253349
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-20L840-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

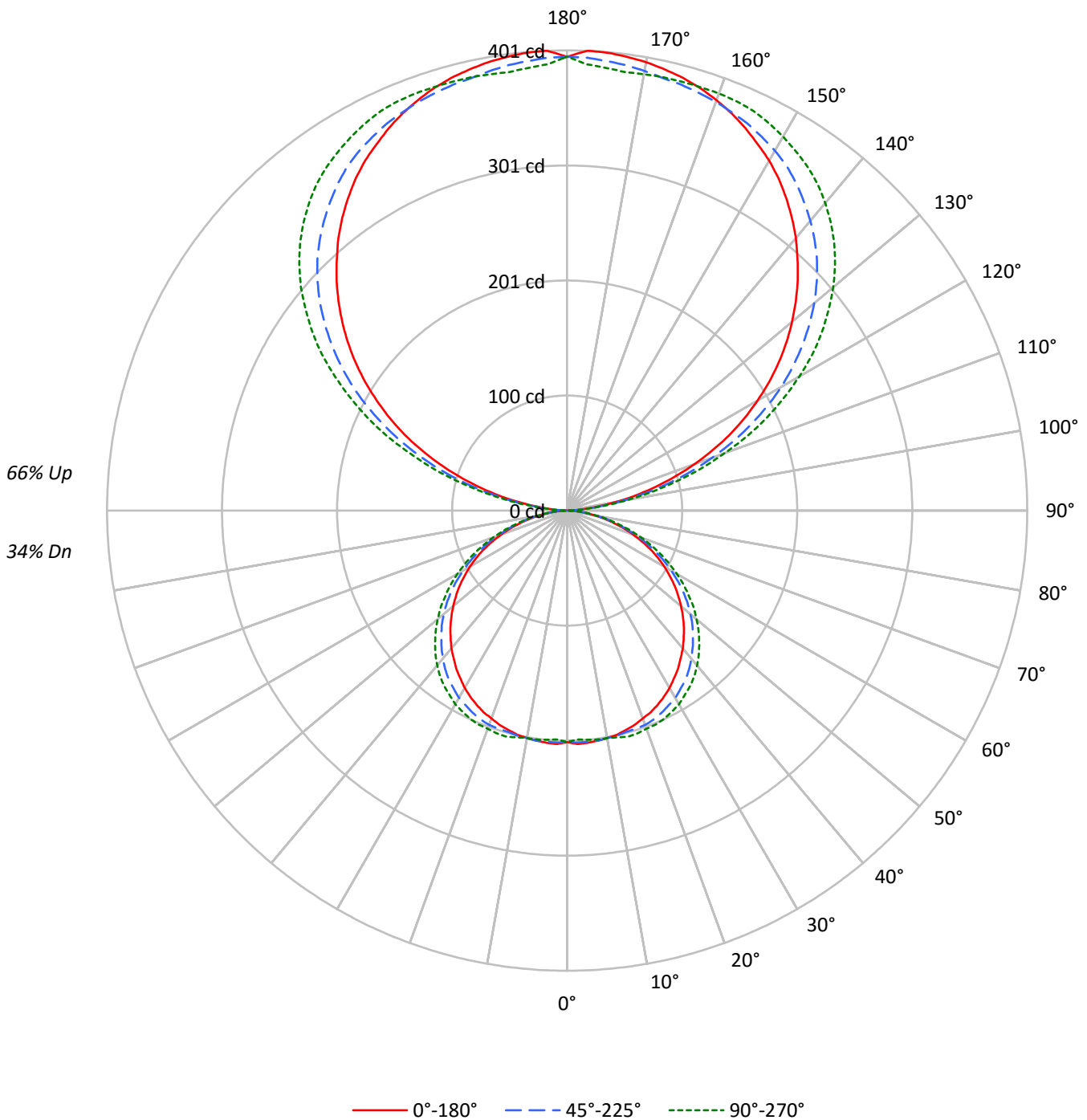
Lumens per Lamp: N/A
Luminaire Lumens: 1930.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 12.8
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°	1629	1629	1629
5°	1646	1639	1625
10°	1650	1650	1650
15°	1654	1668	1705
20°	1655	1708	1738
25°	1663	1733	1782
30°	1664	1756	1817
35°	1660	1771	1840
40°	1652	1775	1857
45°	1642	1770	1859
50°	1626	1762	1850
55°	1609	1738	1823
60°	1579	1692	1784
65°	1530	1629	1721
70°	1442	1534	1614
75°	1323	1407	1472
80°	1148	1227	1269
85°	917	954	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	1.0
10°-20°	56.6	2.9
20°-30°	89.2	4.6
30°-40°	111.4	5.8
40°-50°	118.8	6.2
50°-60°	109.5	5.7
60°-70°	84.1	4.4
70°-80°	47.7	2.5
80°-90°	12.6	0.7
90°-100°	20.2	1.0
100°-110°	95.2	4.9
110°-120°	172.6	8.9
120°-130°	221.7	11.5
130°-140°	235.8	12.2
140°-150°	217.0	11.2
150°-160°	171.8	8.9
160°-170°	109.1	5.7
170°-180°	37.4	1.9
0°-30°	165.1	8.6
0°-40°	276.5	14.3
0°-60°	504.8	26.2
0°-90°	649.1	33.6
90°-120°	288.0	14.9
90°-150°	962.5	49.9
90°-180°	1281.0	66.4
0°-180°	1930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	202	202	202	202	202	
5°	203	201	202	202	200	19
15°	198	197	200	203	204	56
25°	187	187	194	198	200	86
35°	168	172	180	184	187	105
45°	144	148	155	160	163	111
55°	114	118	124	127	130	102
65°	80	82	85	88	90	79
75°	42	43	45	47	47	45
85°	10	10	10	11	11	11
90°	0	0	0	0	0	1
95°	13	14	15	16	17	17
105°	80	83	91	97	99	84
115°	156	162	176	187	192	154
125°	225	232	250	264	271	201
135°	284	288	308	321	329	219
145°	333	331	348	359	366	208
155°	368	362	372	380	384	170
165°	390	384	384	385	387	110
175°	401	396	393	390	387	38
180°	395	395	395	395	395	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	201.8	201.8	201.8	201.8	201.8
2.5°	203.6	201.8	202.3	202.3	199.6
5°	203.1	201.3	202.3	201.8	200.5
7.5°	202.3	201.0	202.3	202.3	201.3
10°	201.3	200.1	201.3	201.8	201.3
12.5°	200.1	198.8	201.0	201.8	202.3
15°	197.9	197.0	199.6	203.1	204.0
17.5°	195.8	195.3	199.3	203.1	203.6
20°	192.7	192.7	198.8	201.8	202.3
22.5°	190.2	190.2	197.0	200.1	201.8
25°	186.7	187.1	194.5	198.4	200.1
27.5°	182.8	184.1	191.4	195.8	197.5
30°	178.5	180.6	188.4	192.7	194.9
32.5°	173.3	176.2	184.1	188.4	190.6
35°	168.4	171.5	179.7	184.1	186.7
37.5°	162.4	166.3	174.5	178.8	181.9
40°	156.8	160.7	168.4	173.3	176.2
42.5°	150.3	154.6	162.0	166.8	169.8
45°	143.8	147.7	155.0	159.8	162.8
47.5°	136.9	140.8	148.2	152.5	155.4
50°	129.5	133.8	140.3	144.6	147.3
52.5°	122.1	126.0	132.1	136.5	139.0
55°	114.3	117.8	123.5	127.4	129.5
57.5°	106.1	109.5	114.3	118.2	120.4
60°	97.8	100.4	104.8	108.7	110.5
62.5°	89.2	91.4	95.3	98.4	100.4
65°	80.1	81.9	85.3	88.3	90.1
67.5°	70.6	72.3	75.3	77.9	79.3
70°	61.1	62.8	65.0	67.1	68.4
72.5°	51.9	52.8	55.0	56.8	57.6
75°	42.4	43.3	45.1	46.8	47.2
77.5°	33.8	34.2	35.6	36.4	36.8
80°	24.7	25.6	26.4	26.8	27.3
82.5°	16.9	17.3	17.7	18.2	18.6
85°	9.9	10.3	10.3	10.9	10.9
87.5°	4.3	4.8	4.8	4.8	4.8
90°	0.5	0.5	0.5	0.0	0.0
92.5°	4.3	4.3	4.8	5.2	5.6
95°	13.4	13.9	15.2	16.0	16.9
97.5°	26.8	27.7	30.3	32.5	33.4
100°	43.3	45.1	49.0	51.9	53.3
102.5°	61.1	63.6	69.3	73.6	75.8
105°	79.7	83.2	91.0	96.6	99.2
107.5°	98.7	103.1	113.1	119.5	123.0
110°	117.8	123.5	134.3	142.9	145.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.9	142.9	155.9	165.4	170.2
115°	155.9	162.4	176.2	187.1	192.3
117.5°	174.1	181.0	196.2	208.3	213.0
120°	191.4	198.8	215.3	227.8	233.5
122.5°	208.7	215.7	233.0	246.4	253.4
125°	225.2	232.1	249.9	263.7	271.1
127.5°	240.8	247.2	266.0	280.2	287.1
130°	255.9	262.0	281.1	295.0	302.8
132.5°	270.3	275.9	295.0	308.4	316.6
135°	284.1	288.4	307.9	321.3	329.2
137.5°	297.1	300.2	319.3	332.7	340.1
140°	310.1	311.0	329.6	342.1	349.9
142.5°	321.8	321.3	339.1	351.2	358.6
145°	332.7	331.4	348.2	359.0	365.5
147.5°	343.0	340.1	356.0	365.2	371.2
150°	352.1	348.2	362.1	371.2	376.3
152.5°	359.8	355.5	367.2	375.5	380.6
155°	367.7	362.5	372.0	379.8	384.2
157.5°	374.6	368.1	375.5	382.4	386.0
160°	380.6	374.3	379.0	384.2	386.8
162.5°	386.0	379.4	381.6	384.6	386.8
165°	390.3	384.2	384.2	385.4	386.8
167.5°	393.7	388.5	386.0	386.3	386.8
170°	396.7	391.5	388.9	386.3	386.0
172.5°	398.9	393.7	391.5	388.0	385.4
175°	400.6	395.9	393.2	390.3	387.2
177.5°	401.1	397.1	395.0	392.0	389.3
180°	395.4	395.4	395.4	395.4	395.4

(END OF REPORT)