

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: P253591

Luminaire Tested: **J3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-50L93050-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3899.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

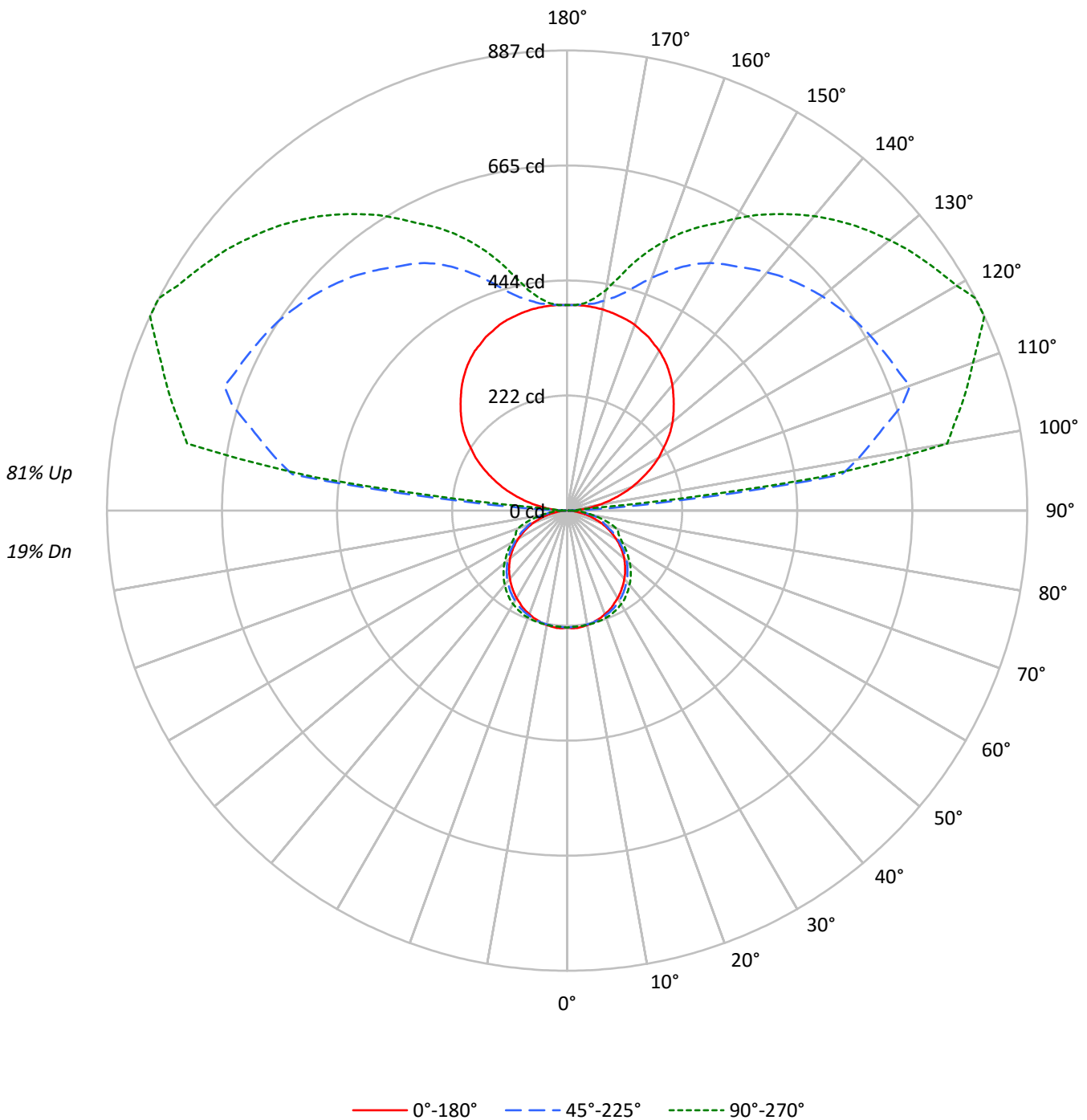
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1822	1822	1822
5°	1840	1821	1817
10°	1838	1826	1834
15°	1829	1837	1858
20°	1826	1851	1888
25°	1823	1863	1914
30°	1817	1872	1940
35°	1810	1877	1959
40°	1807	1879	1972
45°	1807	1879	1980
50°	1804	1878	1982
55°	1787	1871	1980
60°	1758	1837	1979
65°	1708	1820	2090
70°	1638	1822	2375
75°	1510	2087	2392
80°	1316	2111	2338
85°	1037	2399	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.6
10°-20°	62.4	1.6
20°-30°	96.8	2.5
30°-40°	119.7	3.1
40°-50°	127.6	3.3
50°-60°	118.9	3.0
60°-70°	96.9	2.5
70°-80°	66.6	1.7
80°-90°	26.2	0.7
90°-100°	230.1	5.9
100°-110°	588.9	15.1
110°-120°	609.5	15.6
120°-130°	543.0	13.9
130°-140°	452.2	11.6
140°-150°	344.2	8.8
150°-160°	231.6	5.9
160°-170°	125.5	3.2
170°-180°	38.5	1.0
0°-30°	180.6	4.6
0°-40°	300.3	7.7
0°-60°	546.8	14.0
0°-90°	736.6	18.9
90°-120°	1428.5	36.6
90°-150°	2767.9	71.0
90°-180°	3163.0	81.1
0°-180°	3899.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	226	226	226	226	226	
5°	227	226	225	225	224	22
15°	219	220	220	222	222	62
25°	205	207	209	214	215	94
35°	184	187	190	197	199	115
45°	158	161	165	170	173	122
55°	127	129	133	137	141	113
65°	89	91	95	104	109	88
75°	48	51	67	75	77	51
85°	11	20	26	29	29	13
90°	2	2	2	2	2	4
95°	33	256	189	32	32	32
105°	97	406	635	747	787	102
115°	168	420	687	850	887	167
125°	235	429	660	794	840	210
135°	291	441	622	739	779	224
145°	338	433	574	666	698	211
155°	370	411	517	583	603	170
165°	388	399	436	478	494	110
175°	396	397	399	401	402	38
180°	396	396	396	396	396	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	225.7	225.7	225.7	225.7	225.7
2.5°	227.1	226.7	224.7	225.2	224.2
5°	227.1	226.2	224.7	225.2	224.2
7.5°	225.7	225.2	223.7	224.7	224.2
10°	224.2	223.7	222.7	224.2	223.7
12.5°	222.3	222.3	221.8	223.2	223.2
15°	218.8	220.3	219.8	222.3	222.3
17.5°	216.4	217.4	217.9	220.8	221.3
20°	212.5	214.4	215.4	218.3	219.8
22.5°	209.1	211.0	212.5	216.4	217.9
25°	204.7	206.6	209.1	213.5	214.9
27.5°	199.3	202.7	205.2	210.5	212.0
30°	194.9	197.3	200.8	206.1	208.1
32.5°	189.5	192.5	195.9	201.7	204.2
35°	183.7	186.6	190.5	196.9	198.8
37.5°	177.8	180.2	184.6	191.0	193.4
40°	171.5	173.9	178.3	185.1	187.1
42.5°	165.1	167.5	171.9	178.3	180.7
45°	158.3	160.7	164.6	170.5	173.4
47.5°	150.9	153.4	157.3	163.2	166.1
50°	143.6	145.6	149.5	154.8	157.8
52.5°	135.3	137.3	141.2	146.1	149.0
55°	127.0	129.0	132.9	137.3	140.7
57.5°	118.2	120.2	123.1	128.0	131.9
60°	108.9	110.9	113.8	119.2	122.6
62.5°	99.2	101.1	104.5	110.4	115.8
65°	89.4	91.3	95.3	104.0	109.4
67.5°	79.6	81.6	85.0	97.7	106.5
70°	69.4	71.3	77.2	94.8	100.6
72.5°	58.6	61.5	71.3	87.4	89.9
75°	48.4	51.3	66.9	74.7	76.7
77.5°	37.6	42.0	58.1	61.5	62.5
80°	28.3	34.7	45.4	49.8	50.3
82.5°	19.1	29.8	35.2	38.1	38.1
85°	11.2	20.5	25.9	28.8	28.8
87.5°	6.4	13.7	19.1	22.5	22.0
90°	1.5	2.4	2.4	2.0	2.0
92.5°	17.6	47.9	15.6	14.7	14.7
95°	32.7	256.0	188.6	31.8	31.8
97.5°	45.4	311.2	533.9	646.3	486.0
100°	62.0	373.2	568.1	700.0	744.0
102.5°	78.2	396.2	600.3	719.5	763.5
105°	96.7	406.4	635.0	746.9	787.4
107.5°	114.8	412.3	677.5	770.8	809.9
110°	133.4	415.2	702.9	798.7	832.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.5	417.6	693.2	830.9	858.3
115°	168.5	420.1	687.3	849.5	887.1
117.5°	186.1	421.6	680.4	830.4	887.1
120°	203.7	424.0	674.6	817.7	867.0
122.5°	218.3	426.9	667.7	806.5	853.4
125°	235.0	429.4	659.9	794.3	840.2
127.5°	251.1	431.8	651.1	781.6	827.0
130°	265.2	437.2	642.3	768.9	810.9
132.5°	277.9	440.1	632.6	753.7	795.2
135°	290.6	441.1	622.3	739.1	778.6
137.5°	302.9	440.6	612.1	722.5	760.1
140°	315.6	439.1	599.4	705.4	741.0
142.5°	326.8	436.2	586.7	686.3	719.5
145°	337.5	432.8	573.5	666.3	697.5
147.5°	346.8	427.4	563.2	644.8	675.1
150°	355.6	421.6	551.0	622.8	649.7
152.5°	362.0	416.2	535.9	601.8	624.3
155°	369.8	411.3	517.3	583.2	603.3
157.5°	374.7	407.4	497.8	560.3	579.8
160°	381.0	404.5	477.7	535.4	553.4
162.5°	385.4	401.5	455.8	507.5	525.1
165°	388.3	399.1	435.7	478.2	494.3
167.5°	391.3	398.1	421.1	447.4	460.1
170°	393.7	397.1	410.8	424.5	431.3
172.5°	395.2	396.6	402.5	409.8	413.3
175°	396.2	396.6	399.1	400.6	401.5
177.5°	396.6	396.6	396.6	396.2	396.6
180°	396.2	396.2	396.2	396.2	396.2

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