

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: P253472

Luminaire Tested: **J3-CL-40L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-40L93050-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR 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: 2991.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

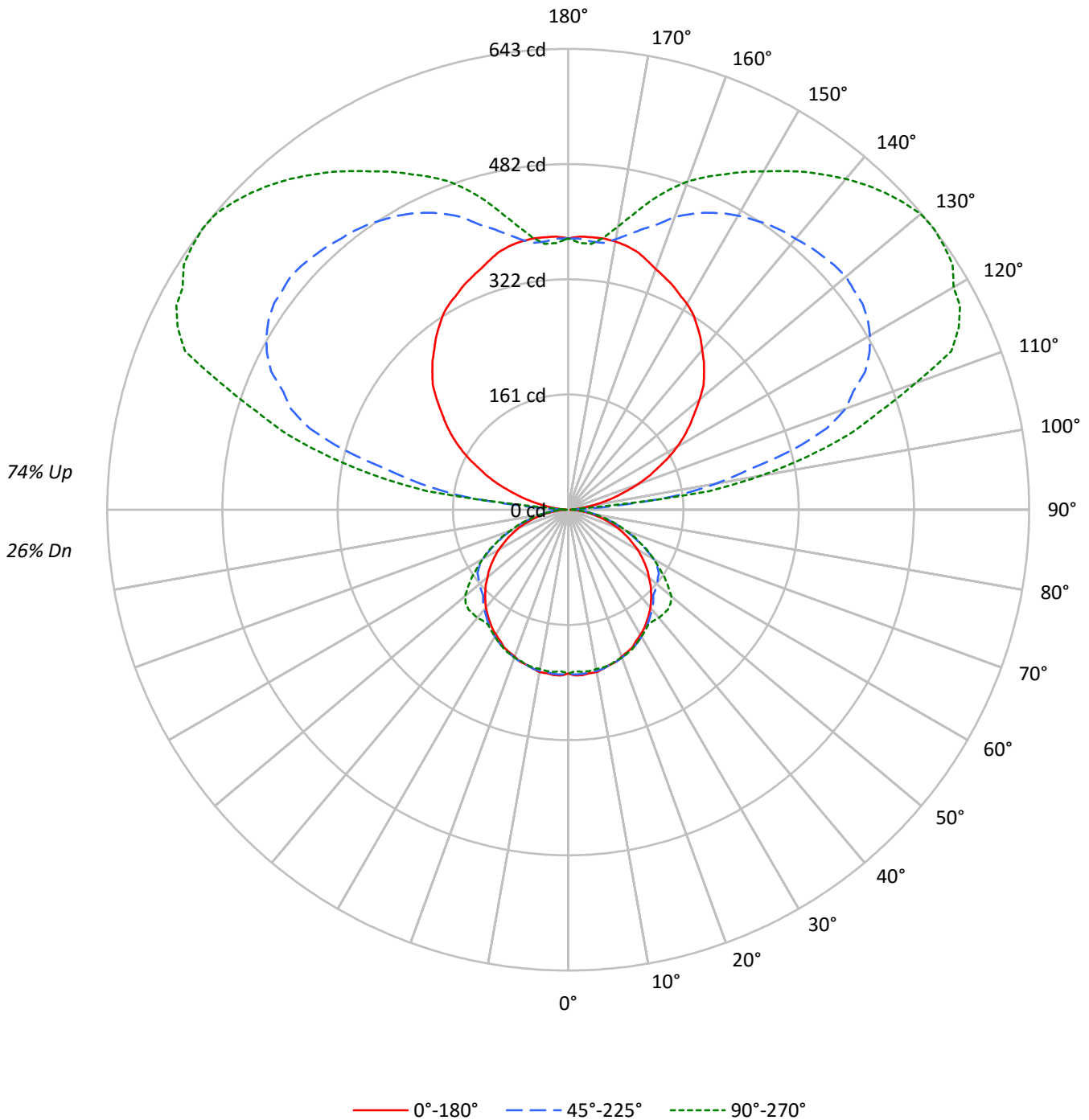
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1845	1845	1845
5°	1877	1865	1840
10°	1886	1874	1849
15°	1873	1873	1873
20°	1873	1886	1886
25°	1888	1902	1902
30°	1877	1905	1905
35°	1880	1910	1925
40°	1882	1915	2074
45°	1867	1918	2247
50°	1845	2035	2357
55°	1833	2173	2301
60°	1808	2225	2225
65°	1765	2111	2139
70°	1716	2002	2037
75°	1606	1890	1937
80°	1478	1832	1757
85°	1399	1964	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.7
10°-20°	63.3	2.1
20°-30°	97.8	3.3
30°-40°	121.3	4.1
40°-50°	135.7	4.5
50°-60°	132.6	4.4
60°-70°	104.6	3.5
70°-80°	63.3	2.1
80°-90°	22.5	0.8
90°-100°	77.7	2.6
100°-110°	300.5	10.0
110°-120°	412.9	13.8
120°-130°	417.8	14.0
130°-140°	370.2	12.4
140°-150°	292.8	9.8
150°-160°	204.5	6.8
160°-170°	115.7	3.9
170°-180°	36.3	1.2
0°-30°	182.8	6.1
0°-40°	304.1	10.2
0°-60°	572.5	19.1
0°-90°	763.0	25.5
90°-120°	791.1	26.4
90°-150°	1871.9	62.6
90°-180°	2228.0	74.5
0°-180°	2991.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	229	229	229	229	229	
5°	232	229	230	229	227	22
15°	224	222	224	224	224	63
25°	212	209	214	214	214	97
35°	191	191	194	195	195	119
45°	164	165	168	189	197	126
55°	130	132	154	164	164	116
65°	92	97	110	112	112	91
75°	52	61	61	62	62	55
85°	15	24	21	20	18	16
90°	3	9	8	2	2	3
95°	12	61	73	15	15	15
105°	67	215	326	376	406	71
115°	138	291	457	566	601	137
125°	207	336	501	610	640	186
135°	268	369	501	600	625	206
145°	313	378	486	557	575	196
155°	345	369	457	507	516	159
165°	372	371	406	441	447	105
175°	382	377	376	376	372	36
180°	378	378	378	378	378	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	228.6	228.6	228.6	228.6	228.6
2.5°	231.6	228.6	230.1	228.6	225.6
5°	231.6	228.6	230.1	228.6	227.1
7.5°	230.1	228.6	228.6	227.1	227.1
10°	230.1	227.1	228.6	227.1	225.6
12.5°	227.1	225.6	227.1	225.6	225.6
15°	224.1	222.5	224.1	224.1	224.1
17.5°	222.5	219.5	222.5	222.5	221.0
20°	218.0	216.5	219.5	219.5	219.5
22.5°	215.0	213.5	216.5	216.5	216.5
25°	212.0	208.9	213.5	213.5	213.5
27.5°	205.9	205.9	208.9	210.4	208.9
30°	201.4	199.8	204.4	205.9	204.4
32.5°	196.8	195.3	199.8	201.4	199.8
35°	190.8	190.8	193.8	195.3	195.3
37.5°	184.7	184.7	187.7	189.2	195.3
40°	178.6	178.6	181.7	190.8	196.8
42.5°	171.1	171.1	175.6	189.2	196.8
45°	163.5	165.0	168.0	189.2	196.8
47.5°	155.9	157.5	165.0	187.7	193.8
50°	146.9	149.9	162.0	183.2	187.7
52.5°	139.3	140.8	157.5	175.6	175.6
55°	130.2	131.7	154.4	163.5	163.5
57.5°	121.1	122.6	146.9	149.9	149.9
60°	112.0	113.5	137.8	137.8	137.8
62.5°	101.4	104.5	124.1	125.7	125.7
65°	92.4	96.9	110.5	112.0	112.0
67.5°	81.8	89.3	98.4	99.9	99.9
70°	72.7	81.8	84.8	86.3	86.3
72.5°	62.1	71.2	72.7	74.2	74.2
75°	51.5	60.6	60.6	62.1	62.1
77.5°	40.9	48.4	50.0	50.0	50.0
80°	31.8	36.3	39.4	37.8	37.8
82.5°	22.7	28.8	28.8	28.8	27.3
85°	15.1	24.2	21.2	19.7	18.2
87.5°	9.1	21.2	12.1	10.6	10.6
90°	3.0	9.1	7.6	1.5	1.5
92.5°	6.1	15.1	7.6	6.1	4.5
95°	12.1	60.6	72.7	15.1	15.1
97.5°	22.7	101.4	155.9	184.7	198.3
100°	34.8	151.4	208.9	255.9	272.5
102.5°	50.0	183.2	257.4	316.4	340.6
105°	66.6	215.0	325.5	375.5	405.7
107.5°	83.3	239.2	378.5	434.5	455.7
110°	102.9	258.9	411.8	508.7	514.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	121.1	274.0	430.0	545.0	578.3
115°	137.8	290.7	457.2	566.2	601.0
117.5°	157.5	302.8	473.9	578.3	616.2
120°	175.6	313.4	486.0	593.5	620.7
122.5°	192.3	325.5	495.1	605.6	635.9
125°	207.4	336.1	501.1	610.1	640.4
127.5°	222.5	345.2	502.6	611.6	643.4
130°	239.2	354.3	505.7	610.1	641.9
132.5°	255.9	363.3	504.1	605.6	634.3
135°	268.0	369.4	501.1	599.5	625.3
137.5°	280.1	373.9	498.1	590.4	614.7
140°	290.7	377.0	493.5	579.8	602.5
142.5°	302.8	378.5	490.5	569.2	588.9
145°	313.4	378.5	486.0	557.1	575.3
147.5°	324.0	377.0	479.9	545.0	560.2
150°	331.6	373.9	473.9	532.9	545.0
152.5°	337.6	370.9	466.3	519.3	531.4
155°	345.2	369.4	457.2	507.2	516.3
157.5°	351.2	369.4	446.6	493.5	502.6
160°	357.3	369.4	434.5	479.9	487.5
162.5°	364.9	369.4	417.8	460.2	467.8
165°	372.4	370.9	405.7	440.6	446.6
167.5°	377.0	370.9	393.6	416.3	422.4
170°	380.0	373.9	383.0	399.7	401.2
172.5°	381.5	377.0	375.5	383.0	383.0
175°	381.5	377.0	375.5	375.5	372.4
177.5°	381.5	378.5	378.5	377.0	372.4
180°	378.5	378.5	378.5	378.5	378.5

(END OF REPORT)