

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: P253459

Luminaire Tested: **J3-CL-30L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253459
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-30L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3063.2 lumens
Efficiency: N/A
Efficacy: 141.2 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

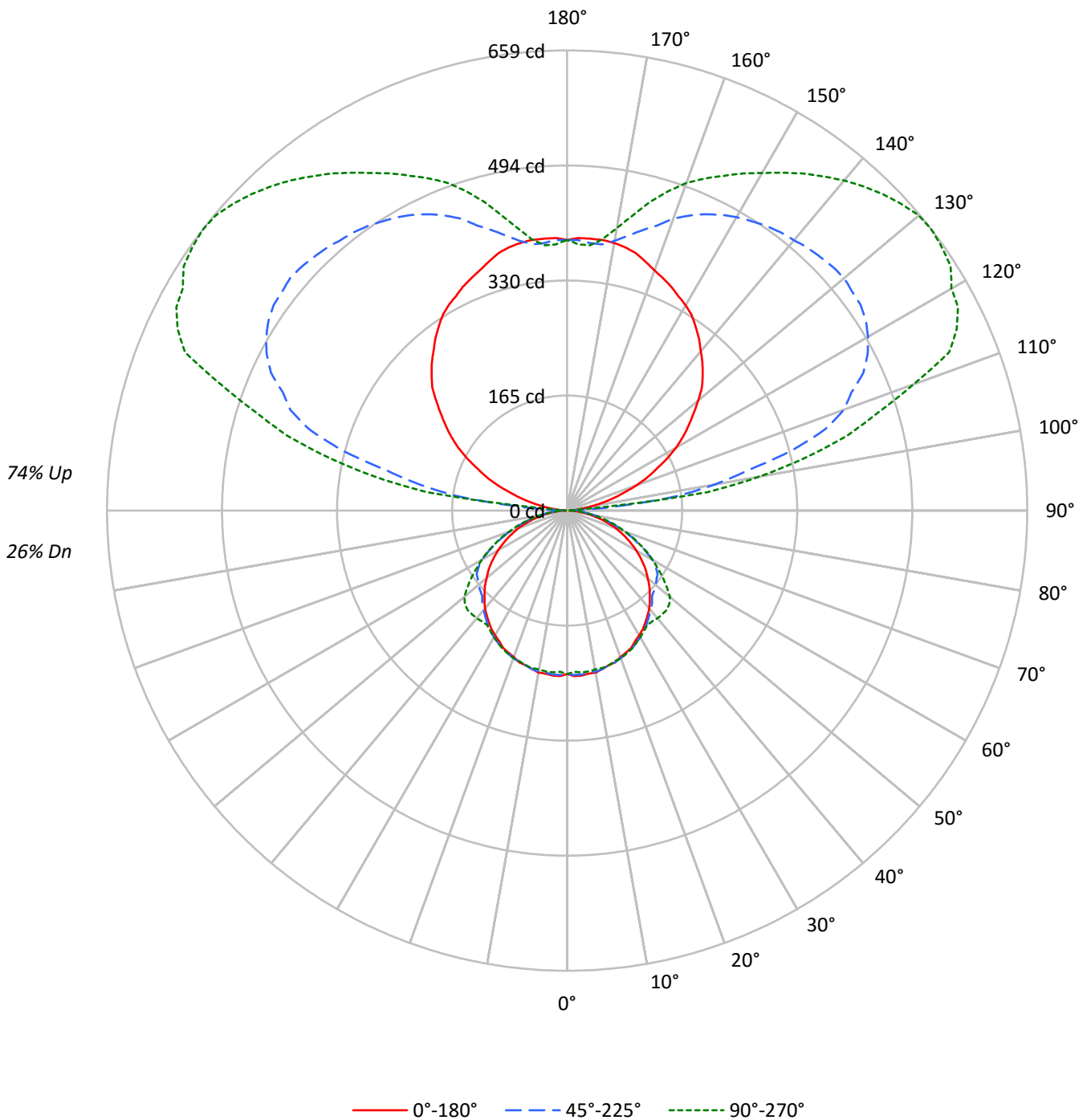
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1890	1890	1890
5°	1922	1909	1884
10°	1931	1919	1894
15°	1917	1917	1917
20°	1918	1931	1931
25°	1933	1947	1947
30°	1922	1951	1951
35°	1925	1955	1971
40°	1927	1960	2124
45°	1911	1965	2300
50°	1889	2084	2414
55°	1876	2225	2356
60°	1852	2278	2278
65°	1807	2162	2191
70°	1756	2049	2087
75°	1644	1934	1984
80°	1516	1874	1804
85°	1436	2010	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.7
10°-20°	64.8	2.1
20°-30°	100.1	3.3
30°-40°	124.2	4.1
40°-50°	139.0	4.5
50°-60°	135.8	4.4
60°-70°	107.1	3.5
70°-80°	64.8	2.1
80°-90°	23.1	0.8
90°-100°	79.6	2.6
100°-110°	307.7	10.0
110°-120°	422.9	13.8
120°-130°	427.8	14.0
130°-140°	379.1	12.4
140°-150°	299.9	9.8
150°-160°	209.4	6.8
160°-170°	118.5	3.9
170°-180°	37.1	1.2
0°-30°	187.2	6.1
0°-40°	311.4	10.2
0°-60°	586.2	19.1
0°-90°	781.3	25.5
90°-120°	810.1	26.4
90°-150°	1916.9	62.6
90°-180°	2282.0	74.5
0°-180°	3063.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	234	234	234	234	234	
5°	237	234	236	234	232	23
15°	229	228	229	229	229	65
25°	217	214	219	219	219	100
35°	195	195	198	200	200	122
45°	167	169	172	194	202	129
55°	133	135	158	167	167	119
65°	95	99	113	115	115	93
75°	53	62	62	64	64	56
85°	16	25	22	20	19	16
90°	3	9	8	2	2	3
95°	12	62	74	16	16	15
105°	68	220	333	384	416	73
115°	141	298	468	580	616	141
125°	212	344	513	625	656	190
135°	274	378	513	614	640	211
145°	321	388	498	570	589	201
155°	354	378	468	519	529	163
165°	381	380	416	451	457	107
175°	391	386	384	384	381	37
180°	388	388	388	388	388	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	234.1	234.1	234.1	234.1	234.1
2.5°	237.2	234.1	235.6	234.1	231.0
5°	237.2	234.1	235.6	234.1	232.5
7.5°	235.6	234.1	234.1	232.5	232.5
10°	235.6	232.5	234.1	232.5	231.0
12.5°	232.5	231.0	232.5	231.0	231.0
15°	229.4	227.9	229.4	229.4	229.4
17.5°	227.9	224.8	227.9	227.9	226.3
20°	223.2	221.7	224.8	224.8	224.8
22.5°	220.1	218.6	221.7	221.7	221.7
25°	217.0	213.9	218.6	218.6	218.6
27.5°	210.8	210.8	213.9	215.5	213.9
30°	206.2	204.6	209.3	210.8	209.3
32.5°	201.5	200.0	204.6	206.2	204.6
35°	195.3	195.3	198.4	200.0	200.0
37.5°	189.1	189.1	192.2	193.8	200.0
40°	182.9	182.9	186.0	195.3	201.5
42.5°	175.2	175.2	179.8	193.8	201.5
45°	167.4	169.0	172.1	193.8	201.5
47.5°	159.7	161.2	169.0	192.2	198.4
50°	150.4	153.5	165.9	187.6	192.2
52.5°	142.6	144.2	161.2	179.8	179.8
55°	133.3	134.9	158.1	167.4	167.4
57.5°	124.0	125.6	150.4	153.5	153.5
60°	114.7	116.3	141.1	141.1	141.1
62.5°	103.9	107.0	127.1	128.7	128.7
65°	94.6	99.2	113.2	114.7	114.7
67.5°	83.7	91.5	100.8	102.3	102.3
70°	74.4	83.7	86.8	88.4	88.4
72.5°	63.6	72.9	74.4	76.0	76.0
75°	52.7	62.0	62.0	63.6	63.6
77.5°	41.9	49.6	51.2	51.2	51.2
80°	32.6	37.2	40.3	38.8	38.8
82.5°	23.3	29.5	29.5	29.5	27.9
85°	15.5	24.8	21.7	20.2	18.6
87.5°	9.3	21.7	12.4	10.9	10.9
90°	3.1	9.3	7.8	1.6	1.6
92.5°	6.2	15.5	7.8	6.2	4.7
95°	12.4	62.0	74.4	15.5	15.5
97.5°	23.3	103.9	159.7	189.1	203.1
100°	35.7	155.0	213.9	262.0	279.1
102.5°	51.2	187.6	263.6	324.0	348.8
105°	68.2	220.1	333.3	384.5	415.5
107.5°	85.3	244.9	387.6	444.9	466.6
110°	105.4	265.1	421.7	520.9	527.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.0	280.6	440.3	558.1	592.2
115°	141.1	297.7	468.2	579.8	615.5
117.5°	161.2	310.1	485.2	592.2	631.0
120°	179.8	320.9	497.6	607.7	635.6
122.5°	196.9	333.3	507.0	620.1	651.1
125°	212.4	344.2	513.2	624.8	655.8
127.5°	227.9	353.5	514.7	626.3	658.9
130°	244.9	362.8	517.8	624.8	657.3
132.5°	262.0	372.1	516.3	620.1	649.6
135°	274.4	378.3	513.2	613.9	640.3
137.5°	286.8	382.9	510.1	604.6	629.4
140°	297.7	386.0	505.4	593.8	617.0
142.5°	310.1	387.6	502.3	582.9	603.1
145°	320.9	387.6	497.6	570.5	589.1
147.5°	331.8	386.0	491.4	558.1	573.6
150°	339.5	382.9	485.2	545.7	558.1
152.5°	345.7	379.8	477.5	531.8	544.2
155°	353.5	378.3	468.2	519.4	528.7
157.5°	359.7	378.3	457.3	505.4	514.7
160°	365.9	378.3	444.9	491.4	499.2
162.5°	373.6	378.3	427.9	471.3	479.0
165°	381.4	379.8	415.5	451.1	457.3
167.5°	386.0	379.8	403.1	426.3	432.5
170°	389.1	382.9	392.2	409.3	410.8
172.5°	390.7	386.0	384.5	392.2	392.2
175°	390.7	386.0	384.5	384.5	381.4
177.5°	390.7	387.6	387.6	386.0	381.4
180°	387.6	387.6	387.6	387.6	387.6

(END OF REPORT)