

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: P253579

Luminaire Tested: **J3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-40L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.6 lumens
Efficiency: N/A
Efficacy: 147.7 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

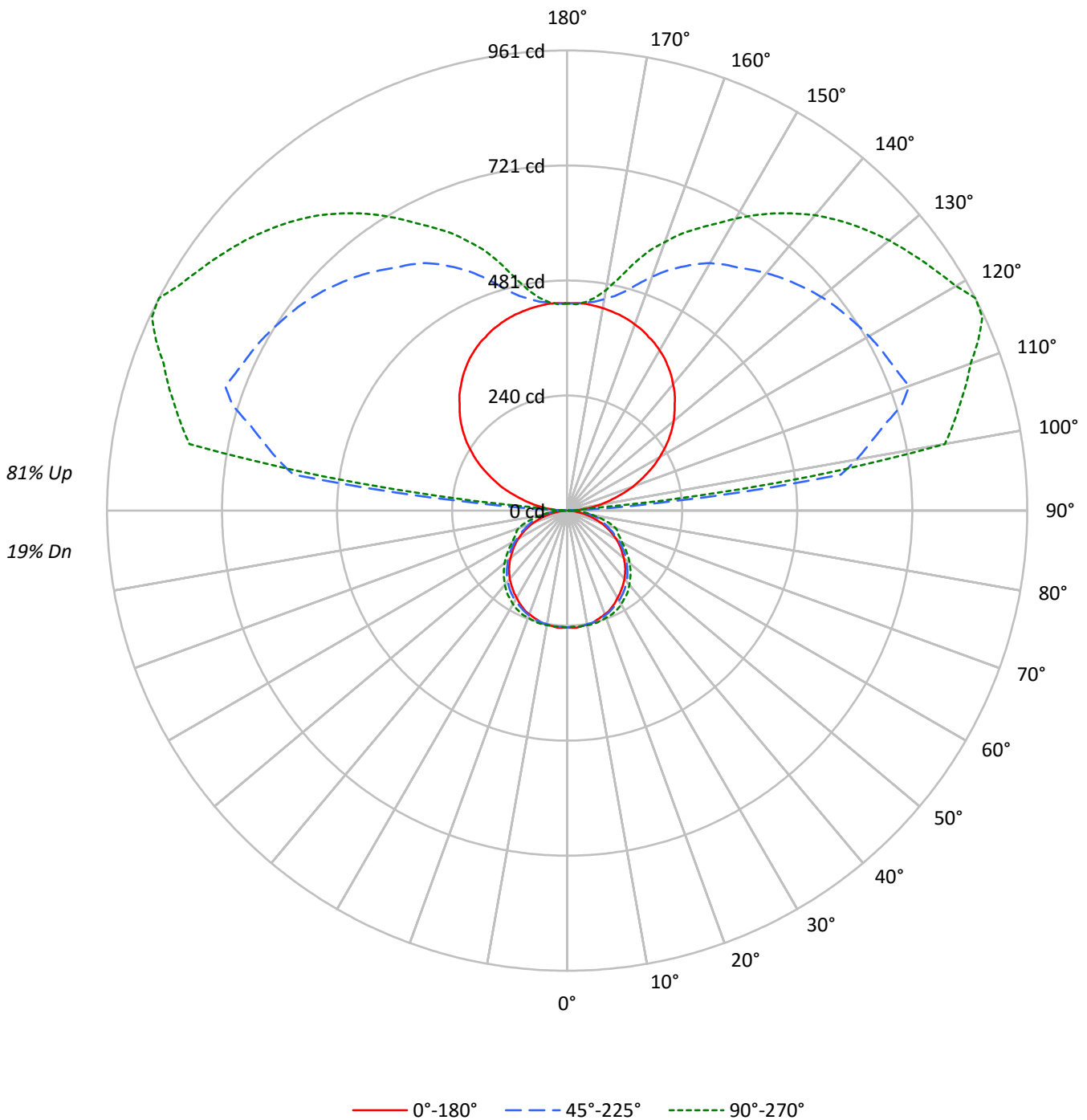
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	19	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°	1971	1971	1971
5°	1987	1970	1970
10°	1985	1976	1993
15°	1979	1988	2023
20°	1980	1998	2044
25°	1978	2006	2082
30°	1962	2021	2110
35°	1960	2033	2127
40°	1963	2030	2130
45°	1959	2031	2140
50°	1943	2022	2141
55°	1925	2014	2134
60°	1904	1988	2141
65°	1849	1969	2252
70°	1789	1987	2559
75°	1641	2265	2592
80°	1418	2301	2497
85°	1074	2538	2825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.5
10°-20°	67.5	1.6
20°-30°	104.6	2.5
30°-40°	129.3	3.1
40°-50°	137.9	3.3
50°-60°	128.6	3.0
60°-70°	104.9	2.5
70°-80°	72.2	1.7
80°-90°	28.3	0.7
90°-100°	245.9	5.8
100°-110°	637.4	15.1
110°-120°	661.3	15.7
120°-130°	588.6	13.9
130°-140°	490.4	11.6
140°-150°	373.4	8.8
150°-160°	251.5	6.0
160°-170°	136.5	3.2
170°-180°	42.0	1.0
0°-30°	195.3	4.6
0°-40°	324.7	7.7
0°-60°	591.2	14.0
0°-90°	796.6	18.9
90°-120°	1544.6	36.6
90°-150°	2996.9	71.0
90°-180°	3427.0	81.1
0°-180°	4223.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	244	244	244	244	244	
5°	245	245	243	243	243	23
15°	237	238	238	241	242	67
25°	222	222	225	232	234	102
35°	199	201	206	213	216	125
45°	172	174	178	184	187	132
55°	137	140	143	147	152	122
65°	97	99	103	113	118	96
75°	53	56	73	81	83	55
85°	12	22	27	32	30	14
90°	2	2	2	2	2	4
95°	36	278	214	35	34	35
105°	104	441	684	810	848	111
115°	184	456	742	926	957	183
125°	259	466	712	863	907	231
135°	318	479	672	803	844	246
145°	367	470	620	722	758	230
155°	401	449	561	633	650	185
165°	423	437	475	519	533	120
175°	434	436	436	438	437	41
180°	433	433	433	433	433	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	244.2	244.2	244.2	244.2	244.2
2.5°	245.2	245.2	243.1	243.1	243.1
5°	245.2	245.2	243.1	243.1	243.1
7.5°	243.1	244.2	243.1	243.1	243.1
10°	242.1	242.1	241.0	242.1	243.1
12.5°	241.0	241.0	240.0	242.1	243.1
15°	236.8	237.9	237.9	241.0	242.1
17.5°	233.7	234.7	235.8	238.9	240.0
20°	230.5	230.5	232.6	236.8	237.9
22.5°	227.3	227.3	229.5	234.7	236.8
25°	222.1	222.1	225.2	231.6	233.7
27.5°	216.8	217.9	221.0	227.3	230.5
30°	210.5	212.6	216.8	223.1	226.3
32.5°	205.2	207.3	211.6	217.9	220.0
35°	198.9	201.0	206.3	212.6	215.8
37.5°	192.6	194.7	200.0	206.3	209.5
40°	186.3	188.4	192.6	200.0	202.1
42.5°	178.9	181.0	186.3	192.6	194.7
45°	171.6	173.7	177.9	184.2	187.4
47.5°	163.1	166.3	169.5	175.8	178.9
50°	154.7	157.9	161.0	167.4	170.5
52.5°	145.2	149.5	152.6	157.9	161.0
55°	136.8	140.0	143.1	147.4	151.6
57.5°	127.4	130.5	133.7	138.9	142.1
60°	117.9	120.0	123.1	128.4	132.6
62.5°	107.4	110.5	112.6	118.9	125.3
65°	96.8	98.9	103.1	112.6	117.9
67.5°	86.3	88.4	92.6	106.3	114.7
70°	75.8	77.9	84.2	103.1	108.4
72.5°	63.2	66.3	76.8	94.7	96.8
75°	52.6	55.8	72.6	81.0	83.1
77.5°	41.0	45.3	62.1	67.4	68.4
80°	30.5	37.9	49.5	53.7	53.7
82.5°	20.0	31.6	37.9	42.1	42.1
85°	11.6	22.1	27.4	31.6	30.5
87.5°	7.4	14.7	21.1	24.2	23.2
90°	2.1	2.1	2.1	2.1	2.1
92.5°	20.0	55.8	16.8	15.8	15.8
95°	35.8	277.9	213.7	34.7	33.7
97.5°	50.5	338.9	576.8	681.0	442.1
100°	68.4	403.1	613.6	758.9	801.0
102.5°	85.3	430.5	647.3	779.9	825.2
105°	104.2	441.0	684.1	810.4	848.3
107.5°	125.3	447.3	732.6	835.7	873.6
110°	146.3	450.5	759.9	869.4	896.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.2	452.6	749.4	904.1	929.4
115°	184.2	455.7	742.0	926.2	956.7
117.5°	205.2	457.8	735.7	905.2	961.0
120°	223.1	461.0	728.3	890.4	937.8
122.5°	241.0	464.2	719.9	876.8	922.0
125°	258.9	466.3	711.5	863.1	907.3
127.5°	274.7	468.4	703.1	848.3	892.5
130°	290.5	474.7	693.6	834.7	877.8
132.5°	304.2	478.9	683.1	817.8	861.0
135°	317.9	478.9	671.5	803.1	844.1
137.5°	332.6	478.9	659.9	784.1	825.2
140°	344.2	476.8	647.3	765.2	805.2
142.5°	356.8	474.7	633.6	745.2	782.0
145°	367.3	470.5	619.9	722.0	757.8
147.5°	377.9	465.2	609.4	698.9	731.5
150°	386.3	460.0	596.8	675.7	704.1
152.5°	394.7	453.6	579.9	653.6	675.7
155°	401.0	449.4	561.0	632.6	650.5
157.5°	408.4	446.3	542.1	608.4	626.3
160°	413.6	442.1	519.9	581.0	596.8
162.5°	418.9	438.9	496.8	551.5	568.4
165°	423.1	436.8	474.7	518.9	532.6
167.5°	426.3	435.7	458.9	486.3	495.7
170°	429.4	434.7	448.4	464.2	467.3
172.5°	431.5	434.7	440.0	447.3	448.4
175°	433.6	435.7	435.7	437.9	436.8
177.5°	433.6	434.7	432.6	433.6	431.5
180°	432.6	432.6	432.6	432.6	432.6

(END OF REPORT)