

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: P253581

Luminaire Tested: **J3-UL-40L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253581
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4260.5 lumens
Efficiency: N/A
Efficacy: 145.4 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

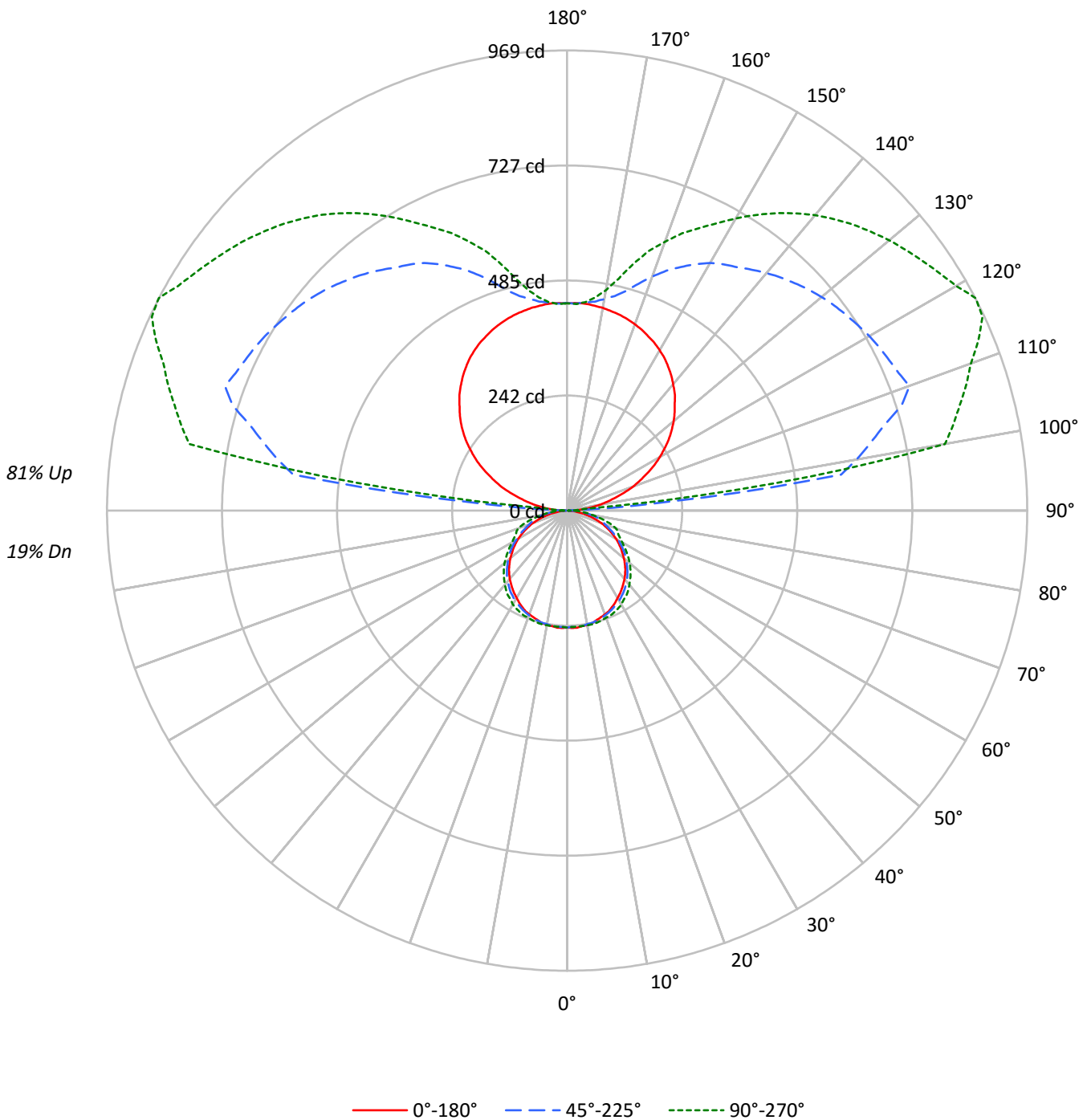
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1988	1988	1988
5°	2005	1988	1988
10°	2002	1993	2011
15°	1997	2006	2041
20°	1997	2015	2062
25°	1995	2024	2099
30°	1979	2039	2128
35°	1978	2051	2145
40°	1980	2048	2149
45°	1976	2048	2158
50°	1961	2040	2160
55°	1942	2032	2152
60°	1920	2005	2160
65°	1866	1987	2271
70°	1803	2004	2582
75°	1656	2286	2617
80°	1432	2320	2515
85°	1084	2556	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	0.5
10°-20°	68.1	1.6
20°-30°	105.5	2.5
30°-40°	130.5	3.1
40°-50°	139.1	3.3
50°-60°	129.7	3.0
60°-70°	105.9	2.5
70°-80°	72.9	1.7
80°-90°	28.5	0.7
90°-100°	248.1	5.8
100°-110°	642.9	15.1
110°-120°	667.0	15.7
120°-130°	593.7	13.9
130°-140°	494.7	11.6
140°-150°	376.7	8.8
150°-160°	253.7	6.0
160°-170°	137.7	3.2
170°-180°	42.4	1.0
0°-30°	197.0	4.6
0°-40°	327.5	7.7
0°-60°	596.3	14.0
0°-90°	803.6	18.9
90°-120°	1558.0	36.6
90°-150°	3023.1	71.0
90°-180°	3457.0	81.1
0°-180°	4260.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	246	246	246	246	246	
5°	247	247	245	245	245	23
15°	239	240	240	243	244	68
25°	224	224	227	234	236	103
35°	201	203	208	214	218	126
45°	173	175	179	186	189	133
55°	138	141	144	149	153	123
65°	98	100	104	114	119	97
75°	53	56	73	82	84	56
85°	12	22	28	32	31	14
90°	2	2	2	2	2	4
95°	36	280	216	35	34	36
105°	105	445	690	818	856	112
115°	186	460	748	934	965	185
125°	261	470	718	871	915	233
135°	321	483	677	810	852	248
145°	370	475	625	728	764	232
155°	404	453	566	638	656	187
165°	427	441	479	523	537	121
175°	437	440	440	442	441	42
180°	436	436	436	436	436	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	246.3	246.3	246.3	246.3	246.3
2.5°	247.4	247.4	245.3	245.3	245.3
5°	247.4	247.4	245.3	245.3	245.3
7.5°	245.3	246.3	245.3	245.3	245.3
10°	244.2	244.2	243.1	244.2	245.3
12.5°	243.1	243.1	242.1	244.2	245.3
15°	238.9	240.0	240.0	243.1	244.2
17.5°	235.7	236.8	237.8	241.0	242.1
20°	232.5	232.5	234.6	238.9	240.0
22.5°	229.3	229.3	231.5	236.8	238.9
25°	224.0	224.0	227.2	233.6	235.7
27.5°	218.7	219.8	223.0	229.3	232.5
30°	212.3	214.5	218.7	225.1	228.3
32.5°	207.0	209.2	213.4	219.8	221.9
35°	200.7	202.8	208.1	214.5	217.7
37.5°	194.3	196.4	201.7	208.1	211.3
40°	187.9	190.0	194.3	201.7	203.9
42.5°	180.5	182.6	187.9	194.3	196.4
45°	173.1	175.2	179.4	185.8	189.0
47.5°	164.6	167.8	170.9	177.3	180.5
50°	156.1	159.3	162.4	168.8	172.0
52.5°	146.5	150.8	154.0	159.3	162.4
55°	138.0	141.2	144.4	148.6	152.9
57.5°	128.5	131.7	134.8	140.1	143.3
60°	118.9	121.0	124.2	129.5	133.8
62.5°	108.3	111.5	113.6	120.0	126.3
65°	97.7	99.8	104.0	113.6	118.9
67.5°	87.1	89.2	93.4	107.2	115.7
70°	76.4	78.6	84.9	104.0	109.4
72.5°	63.7	66.9	77.5	95.6	97.7
75°	53.1	56.3	73.3	81.8	83.9
77.5°	41.4	45.7	62.6	68.0	69.0
80°	30.8	38.2	49.9	54.1	54.1
82.5°	20.2	31.9	38.2	42.5	42.5
85°	11.7	22.3	27.6	31.9	30.8
87.5°	7.4	14.9	21.2	24.4	23.4
90°	2.1	2.1	2.1	2.1	2.1
92.5°	20.2	56.3	17.0	15.9	15.9
95°	36.1	280.3	215.5	35.0	34.0
97.5°	51.0	341.9	581.8	686.9	445.9
100°	69.0	406.6	619.0	765.5	808.0
102.5°	86.0	434.2	653.0	786.7	832.4
105°	105.1	444.9	690.1	817.5	855.8
107.5°	126.3	451.2	739.0	843.0	881.2
110°	147.6	454.4	766.6	877.0	904.6



TEST NUMBER: P253581

CATALOG NUMBER: J3-UL-40L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.7	456.5	755.9	912.0	937.5
115°	185.8	459.7	748.5	934.3	965.1
117.5°	207.0	461.9	742.1	913.1	969.4
120°	225.1	465.0	734.7	898.2	946.0
122.5°	243.1	468.2	726.2	884.4	930.1
125°	261.2	470.3	717.7	870.6	915.2
127.5°	277.1	472.5	709.2	855.8	900.3
130°	293.0	478.8	699.7	841.9	885.5
132.5°	306.8	483.1	689.1	825.0	868.5
135°	320.6	483.1	677.4	810.1	851.5
137.5°	335.5	483.1	665.7	791.0	832.4
140°	347.2	481.0	653.0	771.9	812.2
142.5°	359.9	478.8	639.2	751.7	788.9
145°	370.5	474.6	625.4	728.3	764.4
147.5°	381.2	469.3	614.7	705.0	737.9
150°	389.7	464.0	602.0	681.6	710.3
152.5°	398.1	457.6	585.0	659.3	681.6
155°	404.5	453.4	565.9	638.1	656.1
157.5°	411.9	450.2	546.8	613.7	631.7
160°	417.3	445.9	524.5	586.1	602.0
162.5°	422.6	442.7	501.1	556.3	573.3
165°	426.8	440.6	478.8	523.4	537.2
167.5°	430.0	439.6	462.9	490.5	500.1
170°	433.2	438.5	452.3	468.2	471.4
172.5°	435.3	438.5	443.8	451.2	452.3
175°	437.4	439.6	439.6	441.7	440.6
177.5°	437.4	438.5	436.4	437.4	435.3
180°	436.4	436.4	436.4	436.4	436.4

(END OF REPORT)