

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: P253592

Luminaire Tested: **J3-UL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253592
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4257.8 lumens
Efficiency: N/A
Efficacy: 117.6 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

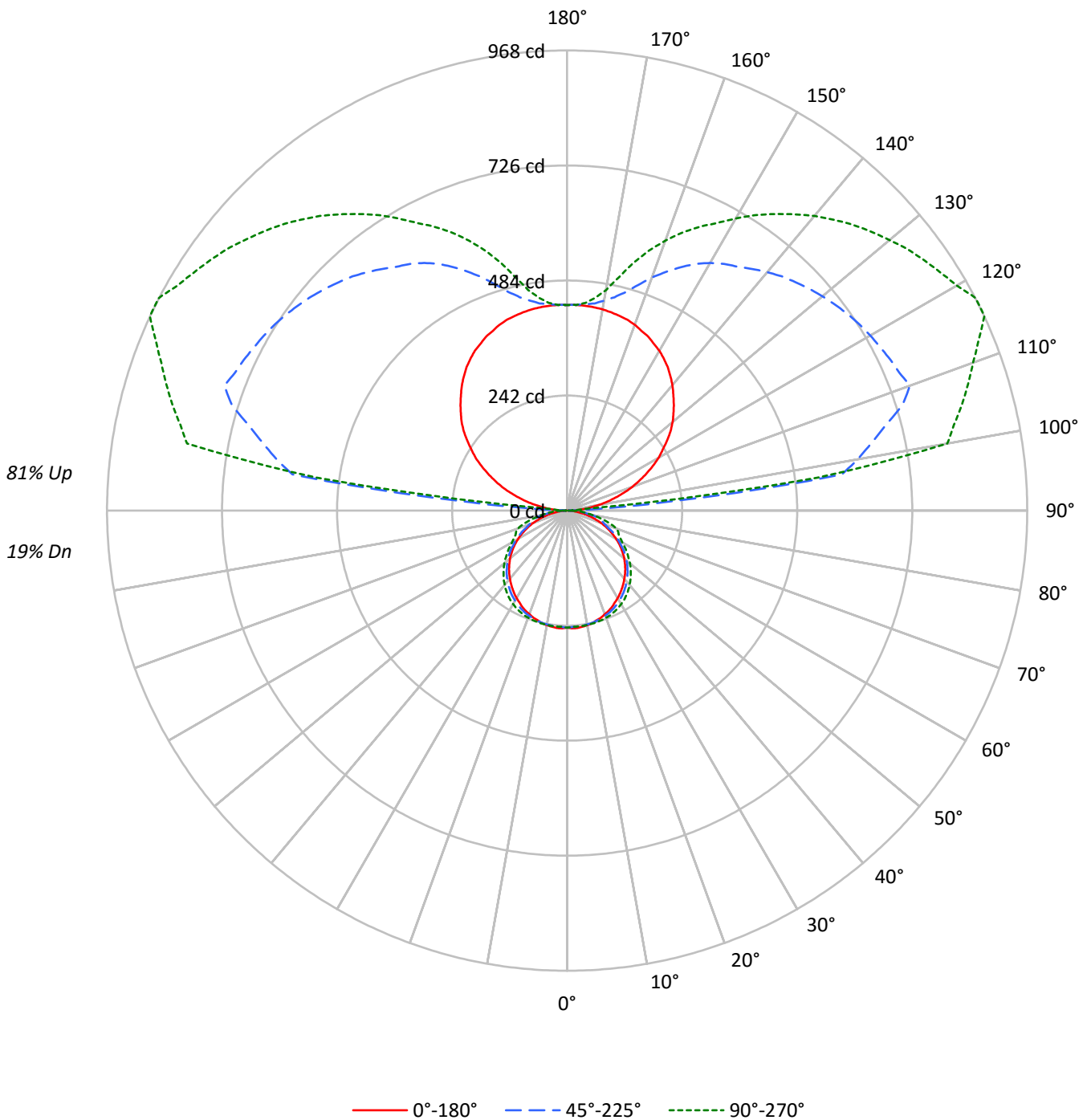
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253592

CATALOG NUMBER: J3-UL-50L93050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253592

CATALOG NUMBER: J3-UL-50L93050-1D-UNV-W2A-W-4 (3500K)

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°	1989	1989	1989
5°	2010	1988	1984
10°	2007	1994	2003
15°	1997	2006	2028
20°	1993	2021	2062
25°	1991	2034	2091
30°	1984	2043	2118
35°	1976	2050	2140
40°	1973	2052	2153
45°	1973	2052	2161
50°	1969	2050	2164
55°	1952	2042	2162
60°	1920	2007	2162
65°	1864	1987	2283
70°	1787	1990	2594
75°	1647	2280	2611
80°	1437	2306	2552
85°	1139	2621	2918



TEST NUMBER: P253592

CATALOG NUMBER: J3-UL-50L93050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	0.6
10°-20°	68.1	1.6
20°-30°	105.6	2.5
30°-40°	130.7	3.1
40°-50°	139.4	3.3
50°-60°	129.8	3.0
60°-70°	105.8	2.5
70°-80°	72.8	1.7
80°-90°	28.6	0.7
90°-100°	251.2	5.9
100°-110°	643.0	15.1
110°-120°	665.4	15.6
120°-130°	592.8	13.9
130°-140°	493.7	11.6
140°-150°	375.8	8.8
150°-160°	252.8	5.9
160°-170°	137.0	3.2
170°-180°	42.0	1.0
0°-30°	197.2	4.6
0°-40°	327.8	7.7
0°-60°	597.0	14.0
0°-90°	804.2	18.9
90°-120°	1559.5	36.6
90°-150°	3021.8	71.0
90°-180°	3454.0	81.1
0°-180°	4257.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	246	246	246	246	246	
5°	248	247	245	246	245	24
15°	239	240	240	243	243	68
25°	224	226	228	233	235	103
35°	200	204	208	215	217	126
45°	173	176	180	186	189	133
55°	139	141	145	150	154	124
65°	98	100	104	114	120	97
75°	53	56	73	82	84	56
85°	12	22	28	32	32	14
90°	2	3	3	2	2	4
95°	36	280	206	35	35	35
105°	106	444	693	815	860	112
115°	184	459	750	927	968	182
125°	256	469	720	867	917	229
135°	317	482	679	807	850	245
145°	368	472	626	727	762	230
155°	404	449	565	637	659	186
165°	424	436	476	522	540	120
175°	432	433	436	437	438	41
180°	432	432	432	432	432	



TEST NUMBER: P253592

CATALOG NUMBER: J3-UL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	246.4	246.4	246.4	246.4	246.4
2.5°	248.0	247.5	245.3	245.9	244.8
5°	248.0	246.9	245.3	245.9	244.8
7.5°	246.4	245.9	244.3	245.3	244.8
10°	244.8	244.3	243.2	244.8	244.3
12.5°	242.7	242.7	242.1	243.7	243.7
15°	238.9	240.5	240.0	242.7	242.7
17.5°	236.3	237.3	237.9	241.1	241.6
20°	232.0	234.1	235.2	238.4	240.0
22.5°	228.3	230.4	232.0	236.3	237.9
25°	223.5	225.6	228.3	233.1	234.7
27.5°	217.6	221.3	224.0	229.9	231.5
30°	212.8	215.5	219.2	225.1	227.2
32.5°	206.9	210.1	213.9	220.3	222.9
35°	200.5	203.7	208.0	214.9	217.1
37.5°	194.1	196.8	201.6	208.5	211.2
40°	187.2	189.9	194.7	202.1	204.3
42.5°	180.3	182.9	187.7	194.7	197.3
45°	172.8	175.5	179.7	186.1	189.3
47.5°	164.8	167.5	171.7	178.1	181.3
50°	156.8	158.9	163.2	169.1	172.3
52.5°	147.7	149.9	154.1	159.5	162.7
55°	138.7	140.8	145.1	149.9	153.6
57.5°	129.1	131.2	134.4	139.7	144.0
60°	118.9	121.1	124.3	130.1	133.9
62.5°	108.3	110.4	114.1	120.5	126.4
65°	97.6	99.7	104.0	113.6	119.5
67.5°	86.9	89.1	92.8	106.7	116.3
70°	75.7	77.9	84.3	103.5	109.9
72.5°	64.0	67.2	77.9	95.5	98.1
75°	52.8	56.0	73.1	81.6	83.7
77.5°	41.1	45.9	63.5	67.2	68.3
80°	30.9	37.9	49.6	54.4	54.9
82.5°	20.8	32.5	38.4	41.6	41.6
85°	12.3	22.4	28.3	31.5	31.5
87.5°	6.9	14.9	20.8	24.5	24.0
90°	1.6	2.7	2.7	2.1	2.1
92.5°	19.2	52.3	17.1	16.0	16.0
95°	35.7	279.5	205.9	34.7	34.7
97.5°	49.6	339.7	582.9	705.6	530.6
100°	67.7	407.4	620.2	764.2	812.2
102.5°	85.3	432.5	655.4	785.6	833.6
105°	105.6	443.7	693.3	815.4	859.7
107.5°	125.3	450.1	739.7	841.6	884.2
110°	145.6	453.3	767.4	872.0	908.7



TEST NUMBER: P253592

CATALOG NUMBER: J3-UL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.3	456.0	756.8	907.1	937.0
115°	184.0	458.6	750.4	927.4	968.5
117.5°	203.2	460.2	742.9	906.6	968.5
120°	222.4	462.9	736.5	892.7	946.6
122.5°	238.4	466.1	729.0	880.5	931.7
125°	256.5	468.8	720.5	867.2	917.3
127.5°	274.1	471.4	710.9	853.3	902.9
130°	289.6	477.3	701.3	839.4	885.3
132.5°	303.4	480.5	690.6	822.9	868.2
135°	317.3	481.6	679.4	806.9	850.1
137.5°	330.6	481.0	668.2	788.8	829.8
140°	344.5	479.4	654.4	770.1	809.0
142.5°	356.8	476.2	640.5	749.3	785.6
145°	368.5	472.5	626.1	727.4	761.6
147.5°	378.6	466.6	614.9	704.0	737.0
150°	388.2	460.2	601.6	680.0	709.3
152.5°	395.2	454.4	585.0	657.0	681.6
155°	403.7	449.0	564.8	636.8	658.6
157.5°	409.0	444.8	543.4	611.7	633.0
160°	416.0	441.6	521.6	584.5	604.2
162.5°	420.8	438.4	497.6	554.1	573.3
165°	424.0	435.7	475.7	522.1	539.7
167.5°	427.2	434.6	459.7	488.5	502.4
170°	429.8	433.6	448.5	463.4	470.9
172.5°	431.4	433.0	439.4	447.4	451.2
175°	432.5	433.0	435.7	437.3	438.4
177.5°	433.0	433.0	433.0	432.5	433.0
180°	432.5	432.5	432.5	432.5	432.5

(END OF REPORT)