

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: P275012

Luminaire Tested: **J3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275012
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-40L82765-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3958.6 lumens
Efficiency: N/A
Efficacy: 138.9 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

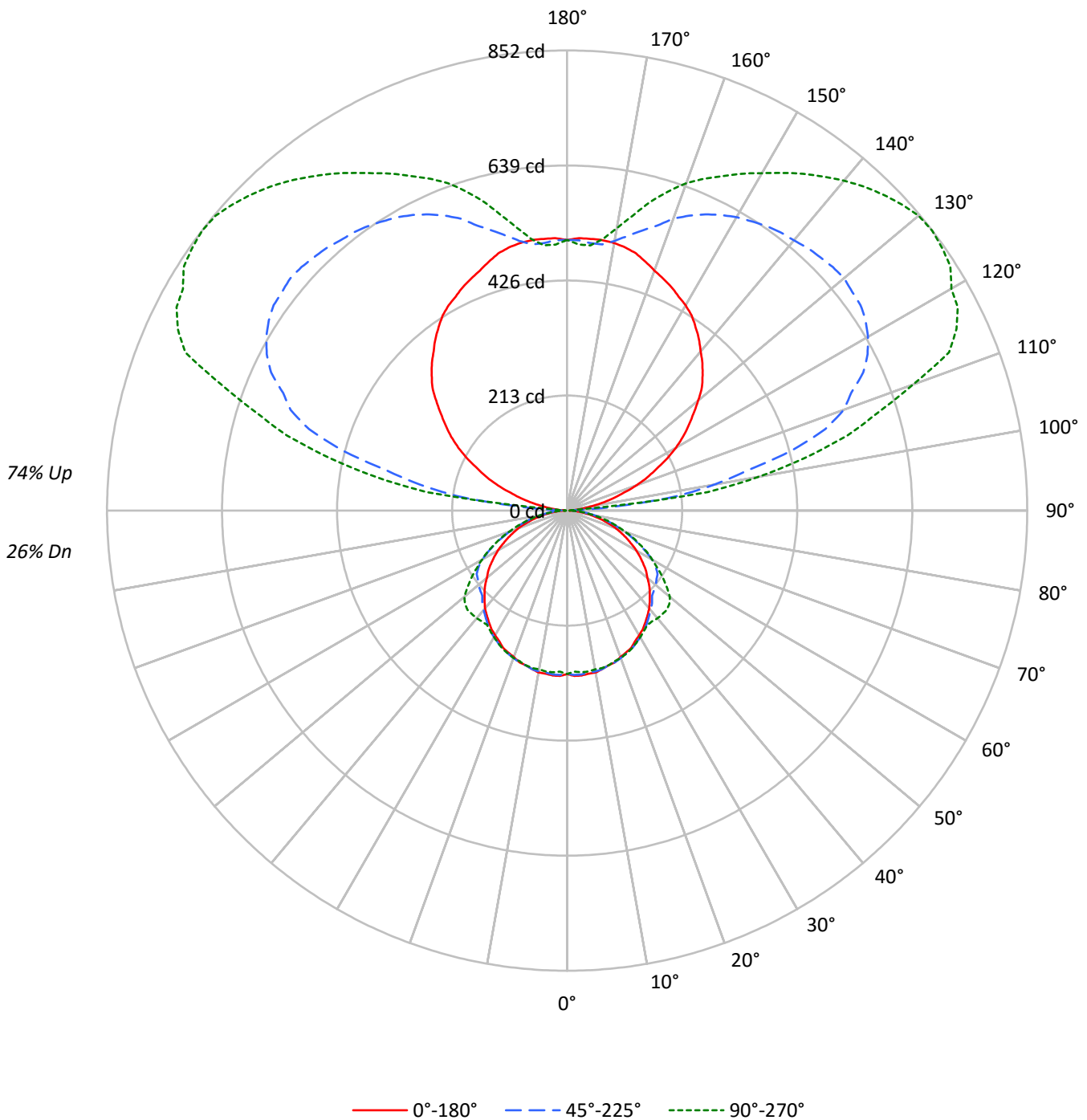
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275012

CATALOG NUMBER: J3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P275012

CATALOG NUMBER: J3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

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°	2442	2442	2442
5°	2484	2468	2435
10°	2496	2480	2447
15°	2478	2478	2478
20°	2479	2496	2496
25°	2499	2516	2516
30°	2484	2522	2522
35°	2487	2527	2548
40°	2491	2533	2745
45°	2471	2539	2974
50°	2440	2693	3120
55°	2425	2877	3046
60°	2394	2943	2943
65°	2334	2795	2833
70°	2271	2648	2696
75°	2124	2498	2561
80°	1957	2422	2329
85°	1853	2594	2223



TEST NUMBER: P275012

CATALOG NUMBER: J3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.7
10°-20°	83.7	2.1
20°-30°	129.4	3.3
30°-40°	160.5	4.1
40°-50°	179.6	4.5
50°-60°	175.5	4.4
60°-70°	138.5	3.5
70°-80°	83.8	2.1
80°-90°	29.8	0.8
90°-100°	102.8	2.6
100°-110°	397.7	10.0
110°-120°	546.5	13.8
120°-130°	552.9	14.0
130°-140°	490.0	12.4
140°-150°	387.5	9.8
150°-160°	270.6	6.8
160°-170°	153.1	3.9
170°-180°	48.0	1.2
0°-30°	242.0	6.1
0°-40°	402.5	10.2
0°-60°	757.6	19.1
0°-90°	1009.7	25.5
90°-120°	1046.9	26.4
90°-150°	2477.3	62.6
90°-180°	2949.0	74.5
0°-180°	3958.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	306	302	304	302	300	29
15°	296	294	296	296	296	84
25°	280	276	282	282	282	129
35°	252	252	256	258	258	158
45°	216	218	222	250	260	167
55°	172	174	204	216	216	154
65°	122	128	146	148	148	120
75°	68	80	80	82	82	72
85°	20	32	28	26	24	21
90°	4	12	10	2	2	4
95°	16	80	96	20	20	20
105°	88	284	431	497	537	94
115°	182	385	605	749	795	182
125°	274	445	663	807	848	246
135°	355	489	663	793	827	273
145°	415	501	643	737	761	259
155°	457	489	605	671	683	211
165°	493	491	537	583	591	139
175°	505	499	497	497	493	48
180°	501	501	501	501	501	



TEST NUMBER: P275012

CATALOG NUMBER: J3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.5	302.5	302.5	302.5	302.5
2.5°	306.5	302.5	304.5	302.5	298.5
5°	306.5	302.5	304.5	302.5	300.5
7.5°	304.5	302.5	302.5	300.5	300.5
10°	304.5	300.5	302.5	300.5	298.5
12.5°	300.5	298.5	300.5	298.5	298.5
15°	296.5	294.5	296.5	296.5	296.5
17.5°	294.5	290.5	294.5	294.5	292.5
20°	288.5	286.5	290.5	290.5	290.5
22.5°	284.5	282.5	286.5	286.5	286.5
25°	280.5	276.5	282.5	282.5	282.5
27.5°	272.5	272.5	276.5	278.5	276.5
30°	266.5	264.5	270.5	272.5	270.5
32.5°	260.5	258.5	264.5	266.5	264.5
35°	252.4	252.4	256.4	258.5	258.5
37.5°	244.4	244.4	248.4	250.4	258.5
40°	236.4	236.4	240.4	252.4	260.5
42.5°	226.4	226.4	232.4	250.4	260.5
45°	216.4	218.4	222.4	250.4	260.5
47.5°	206.4	208.4	218.4	248.4	256.4
50°	194.3	198.3	214.4	242.4	248.4
52.5°	184.3	186.3	208.4	232.4	232.4
55°	172.3	174.3	204.4	216.4	216.4
57.5°	160.3	162.3	194.3	198.3	198.3
60°	148.3	150.3	182.3	182.3	182.3
62.5°	134.2	138.2	164.3	166.3	166.3
65°	122.2	128.2	146.3	148.3	148.3
67.5°	108.2	118.2	130.2	132.2	132.2
70°	96.2	108.2	112.2	114.2	114.2
72.5°	82.1	94.2	96.2	98.2	98.2
75°	68.1	80.1	80.1	82.1	82.1
77.5°	54.1	64.1	66.1	66.1	66.1
80°	42.1	48.1	52.1	50.1	50.1
82.5°	30.1	38.1	38.1	38.1	36.1
85°	20.0	32.1	28.0	26.0	24.0
87.5°	12.0	28.0	16.0	14.0	14.0
90°	4.0	12.0	10.0	2.0	2.0
92.5°	8.0	20.0	10.0	8.0	6.0
95°	16.0	80.1	96.2	20.0	20.0
97.5°	30.1	134.2	206.4	244.4	262.5
100°	46.1	200.3	276.5	338.6	360.6
102.5°	66.1	242.4	340.6	418.7	450.8
105°	88.2	284.5	430.8	496.9	536.9
107.5°	110.2	316.6	500.9	575.0	603.1
110°	136.2	342.6	545.0	673.2	681.2



TEST NUMBER: P275012

CATALOG NUMBER: J3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.3	362.6	569.0	721.3	765.3
115°	182.3	384.7	605.1	749.3	795.4
117.5°	208.4	400.7	627.1	765.3	815.4
120°	232.4	414.7	643.1	785.4	821.4
122.5°	254.4	430.8	655.1	801.4	841.5
125°	274.5	444.8	663.2	807.4	847.5
127.5°	294.5	456.8	665.2	809.4	851.5
130°	316.6	468.8	669.2	807.4	849.5
132.5°	338.6	480.8	667.2	801.4	839.5
135°	354.6	488.9	663.2	793.4	827.4
137.5°	370.6	494.9	659.1	781.4	813.4
140°	384.7	498.9	653.1	767.3	797.4
142.5°	400.7	500.9	649.1	753.3	779.4
145°	414.7	500.9	643.1	737.3	761.3
147.5°	428.7	498.9	635.1	721.3	741.3
150°	438.8	494.9	627.1	705.2	721.3
152.5°	446.8	490.9	617.1	687.2	703.2
155°	456.8	488.9	605.1	671.2	683.2
157.5°	464.8	488.9	591.0	653.1	665.2
160°	472.8	488.9	575.0	635.1	645.1
162.5°	482.8	488.9	553.0	609.1	619.1
165°	492.9	490.9	536.9	583.0	591.0
167.5°	498.9	490.9	520.9	551.0	559.0
170°	502.9	494.9	506.9	528.9	530.9
172.5°	504.9	498.9	496.9	506.9	506.9
175°	504.9	498.9	496.9	496.9	492.9
177.5°	504.9	500.9	500.9	498.9	492.9
180°	500.9	500.9	500.9	500.9	500.9

(END OF REPORT)