

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: P253448

Luminaire Tested: **J3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253448
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-40L83050-1D-UNV-W2A-W-4 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3843.3 lumens
Efficiency: N/A
Efficacy: 137.8 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

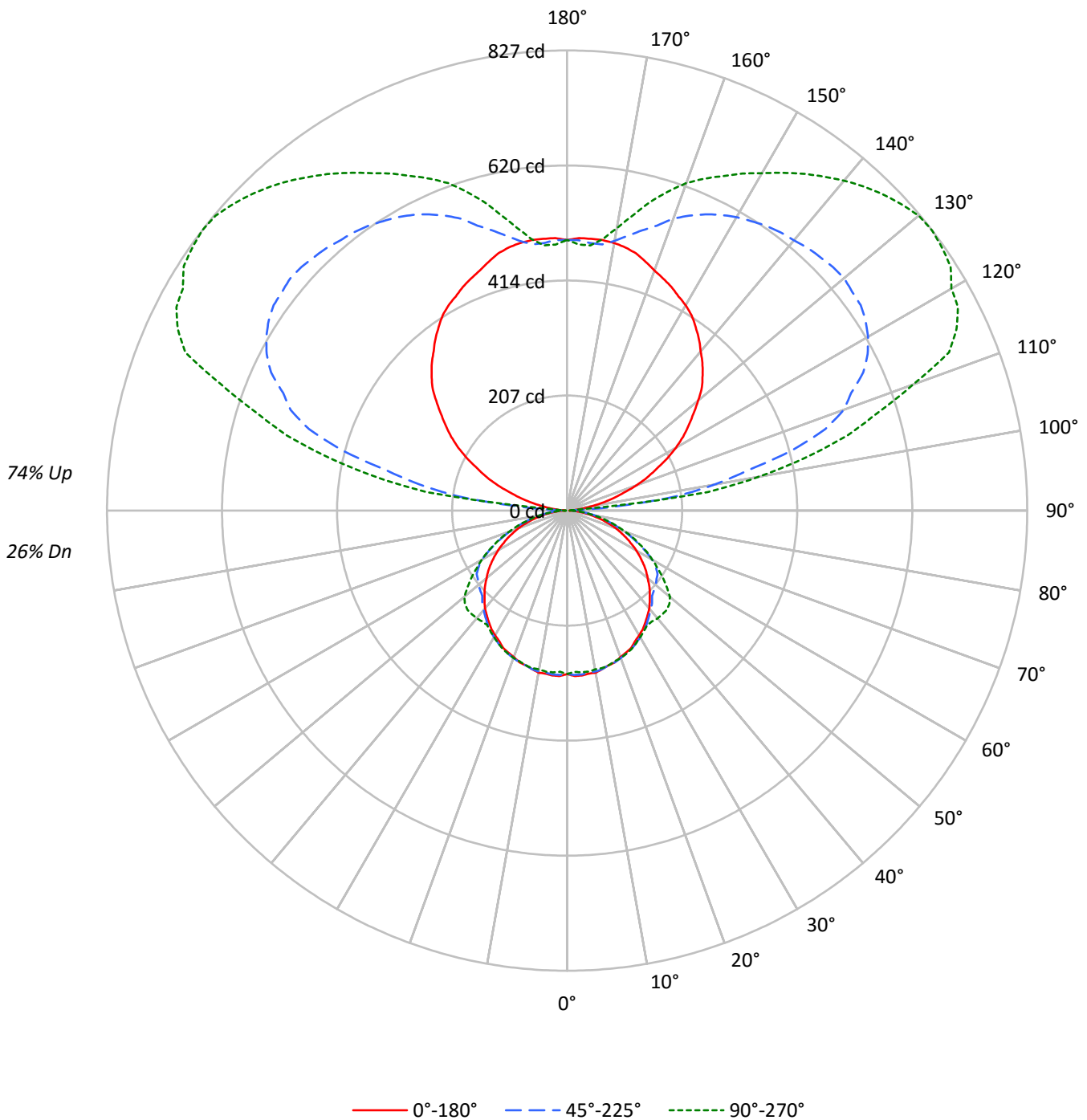
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2371	2371	2371
5°	2412	2396	2365
10°	2424	2408	2376
15°	2406	2406	2406
20°	2406	2423	2423
25°	2426	2443	2443
30°	2412	2448	2448
35°	2416	2454	2473
40°	2419	2460	2665
45°	2399	2465	2887
50°	2370	2614	3029
55°	2355	2792	2957
60°	2323	2858	2858
65°	2267	2713	2749
70°	2205	2570	2618
75°	2062	2427	2489
80°	1897	2352	2259
85°	1806	2519	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	0.7
10°-20°	81.3	2.1
20°-30°	125.6	3.3
30°-40°	155.8	4.1
40°-50°	174.4	4.5
50°-60°	170.4	4.4
60°-70°	134.4	3.5
70°-80°	81.3	2.1
80°-90°	29.0	0.8
90°-100°	99.8	2.6
100°-110°	386.1	10.0
110°-120°	530.5	13.8
120°-130°	536.7	14.0
130°-140°	475.7	12.4
140°-150°	376.2	9.8
150°-160°	262.7	6.8
160°-170°	148.7	3.9
170°-180°	46.6	1.2
0°-30°	234.9	6.1
0°-40°	390.8	10.2
0°-60°	735.5	19.1
0°-90°	980.3	25.5
90°-120°	1016.4	26.4
90°-150°	2405.1	62.6
90°-180°	2863.0	74.5
0°-180°	3843.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	298	294	296	294	292	28
15°	288	286	288	288	288	82
25°	272	268	274	274	274	125
35°	245	245	249	251	251	153
45°	210	212	216	243	253	162
55°	167	169	198	210	210	149
65°	119	124	142	144	144	117
75°	66	78	78	80	80	70
85°	20	31	27	25	23	20
90°	4	12	10	2	2	4
95°	16	78	93	20	20	19
105°	86	276	418	482	521	91
115°	177	374	587	728	772	177
125°	266	432	644	784	823	238
135°	344	475	644	770	803	265
145°	403	486	624	716	739	252
155°	444	475	587	652	663	204
165°	478	477	521	566	574	135
175°	490	484	482	482	478	47
180°	486	486	486	486	486	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.7	293.7	293.7	293.7	293.7
2.5°	297.6	293.7	295.7	293.7	289.8
5°	297.6	293.7	295.7	293.7	291.8
7.5°	295.7	293.7	293.7	291.8	291.8
10°	295.7	291.8	293.7	291.8	289.8
12.5°	291.8	289.8	291.8	289.8	289.8
15°	287.9	285.9	287.9	287.9	287.9
17.5°	285.9	282.0	285.9	285.9	284.0
20°	280.1	278.2	282.0	282.0	282.0
22.5°	276.2	274.3	278.2	278.2	278.2
25°	272.3	268.4	274.3	274.3	274.3
27.5°	264.5	264.5	268.4	270.4	268.4
30°	258.7	256.8	262.6	264.5	262.6
32.5°	252.9	250.9	256.8	258.7	256.8
35°	245.1	245.1	249.0	250.9	250.9
37.5°	237.3	237.3	241.2	243.1	250.9
40°	229.5	229.5	233.4	245.1	252.9
42.5°	219.8	219.8	225.6	243.1	252.9
45°	210.1	212.0	215.9	243.1	252.9
47.5°	200.3	202.3	212.0	241.2	249.0
50°	188.7	192.6	208.1	235.4	241.2
52.5°	179.0	180.9	202.3	225.6	225.6
55°	167.3	169.2	198.4	210.1	210.1
57.5°	155.6	157.6	188.7	192.6	192.6
60°	143.9	145.9	177.0	177.0	177.0
62.5°	130.3	134.2	159.5	161.4	161.4
65°	118.7	124.5	142.0	143.9	143.9
67.5°	105.0	114.8	126.4	128.4	128.4
70°	93.4	105.0	108.9	110.9	110.9
72.5°	79.8	91.4	93.4	95.3	95.3
75°	66.1	77.8	77.8	79.8	79.8
77.5°	52.5	62.2	64.2	64.2	64.2
80°	40.8	46.7	50.6	48.6	48.6
82.5°	29.2	37.0	37.0	37.0	35.0
85°	19.5	31.1	27.2	25.3	23.3
87.5°	11.7	27.2	15.6	13.6	13.6
90°	3.9	11.7	9.7	1.9	1.9
92.5°	7.8	19.5	9.7	7.8	5.8
95°	15.6	77.8	93.4	19.5	19.5
97.5°	29.2	130.3	200.3	237.3	254.8
100°	44.7	194.5	268.4	328.7	350.1
102.5°	64.2	235.4	330.7	406.5	437.7
105°	85.6	276.2	418.2	482.4	521.3
107.5°	107.0	307.3	486.3	558.3	585.5
110°	132.3	332.6	529.1	653.6	661.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	155.6	352.1	552.4	700.3	743.0
115°	177.0	373.5	587.4	727.5	772.2
117.5°	202.3	389.0	608.8	743.0	791.7
120°	225.6	402.6	624.4	762.5	797.5
122.5°	247.0	418.2	636.1	778.1	817.0
125°	266.5	431.8	643.8	783.9	822.8
127.5°	285.9	443.5	645.8	785.8	826.7
130°	307.3	455.2	649.7	783.9	824.7
132.5°	328.7	466.8	647.7	778.1	815.0
135°	344.3	474.6	643.8	770.3	803.3
137.5°	359.9	480.4	640.0	758.6	789.7
140°	373.5	484.3	634.1	745.0	774.2
142.5°	389.0	486.3	630.2	731.4	756.7
145°	402.6	486.3	624.4	715.8	739.2
147.5°	416.3	484.3	616.6	700.3	719.7
150°	426.0	480.4	608.8	684.7	700.3
152.5°	433.8	476.6	599.1	667.2	682.7
155°	443.5	474.6	587.4	651.6	663.3
157.5°	451.3	474.6	573.8	634.1	645.8
160°	459.1	474.6	558.3	616.6	626.3
162.5°	468.8	474.6	536.9	591.3	601.0
165°	478.5	476.6	521.3	566.0	573.8
167.5°	484.3	476.6	505.7	534.9	542.7
170°	488.2	480.4	492.1	513.5	515.5
172.5°	490.2	484.3	482.4	492.1	492.1
175°	490.2	484.3	482.4	482.4	478.5
177.5°	490.2	486.3	486.3	484.3	478.5
180°	486.3	486.3	486.3	486.3	486.3

(END OF REPORT)