

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: P253520

Luminaire Tested: **J3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4083.4 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.47
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

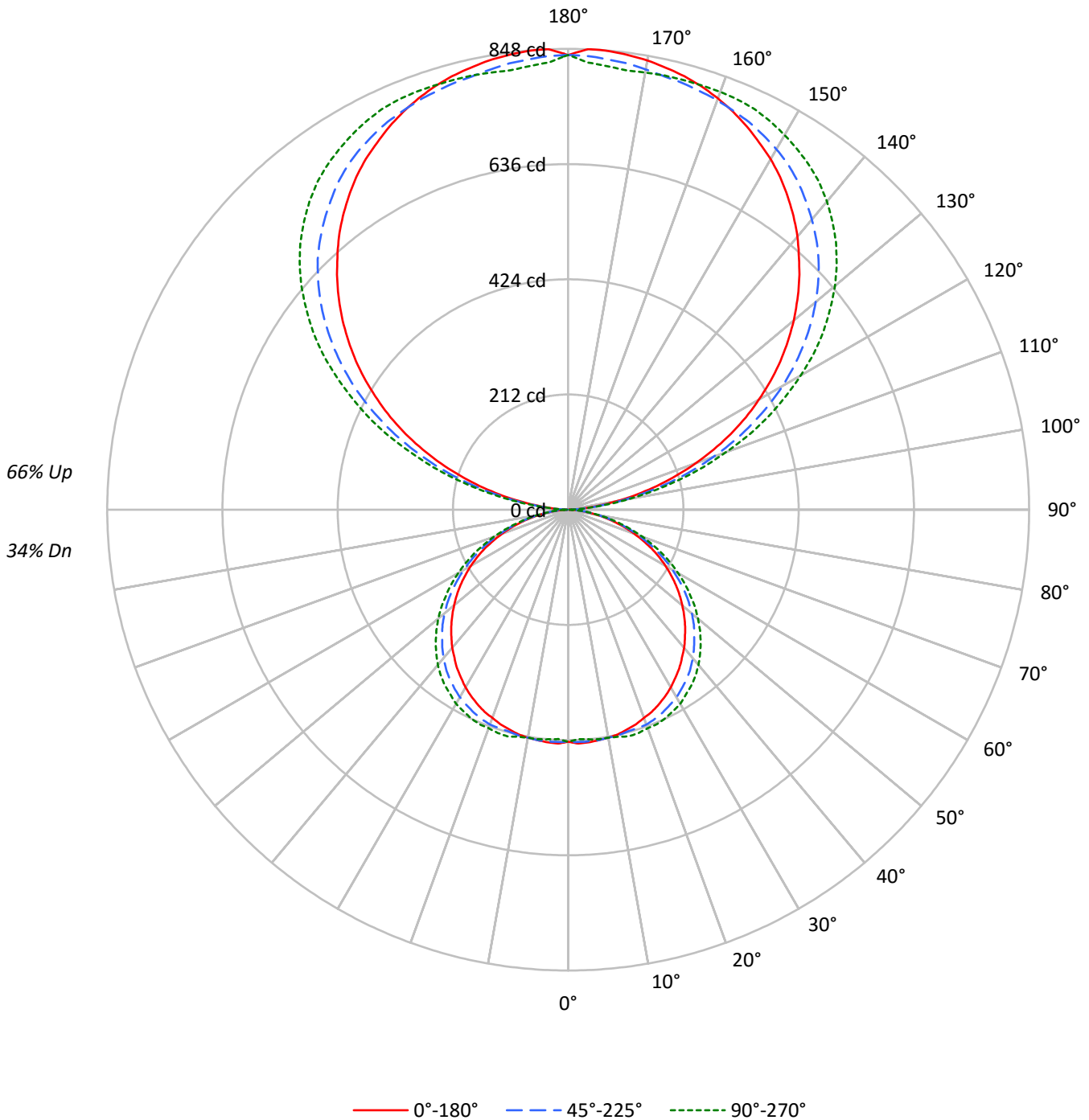
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	50	30	10	0														
RCR																																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34																				
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28																				
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23																				
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19																				
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16																				
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14																				
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12																				
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11																				
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10																				
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9																				
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3447	3447	3447
5°	3482	3468	3438
10°	3492	3492	3492
15°	3499	3530	3608
20°	3503	3613	3676
25°	3518	3665	3771
30°	3520	3716	3845
35°	3512	3747	3893
40°	3497	3756	3930
45°	3473	3745	3933
50°	3440	3729	3913
55°	3403	3676	3855
60°	3342	3581	3773
65°	3238	3446	3643
70°	3050	3246	3415
75°	2801	2973	3116
80°	2431	2599	2692
85°	1945	2019	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	1.0
10°-20°	119.8	2.9
20°-30°	188.7	4.6
30°-40°	235.8	5.8
40°-50°	251.3	6.2
50°-60°	231.7	5.7
60°-70°	178.0	4.4
70°-80°	100.8	2.5
80°-90°	26.6	0.7
90°-100°	42.8	1.0
100°-110°	201.5	4.9
110°-120°	365.1	8.9
120°-130°	469.0	11.5
130°-140°	499.0	12.2
140°-150°	459.1	11.2
150°-160°	363.6	8.9
160°-170°	230.8	5.7
170°-180°	79.2	1.9
0°-30°	349.2	8.6
0°-40°	585.0	14.3
0°-60°	1068.0	26.2
0°-90°	1373.3	33.6
90°-120°	609.4	14.9
90°-150°	2036.5	49.9
90°-180°	2710.0	66.4
0°-180°	4083.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	430	426	428	427	424	41
15°	419	417	422	430	432	118
25°	395	396	412	420	423	182
35°	356	363	380	390	395	223
45°	304	312	328	338	344	235
55°	242	249	261	270	274	216
65°	170	173	180	187	191	167
75°	90	92	95	99	100	95
85°	21	22	22	23	23	24
90°	1	1	1	0	0	3
95°	28	29	32	34	36	37
105°	169	176	192	204	210	178
115°	330	344	373	396	407	325
125°	476	491	529	558	574	425
135°	601	610	652	680	696	464
145°	704	701	737	760	773	440
155°	778	767	787	804	813	359
165°	826	813	813	816	818	233
175°	848	838	832	826	819	81
180°	837	837	837	837	837	



TEST NUMBER: P253520

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427.0	427.0	427.0	427.0	427.0
2.5°	430.7	427.0	427.9	427.9	422.4
5°	429.7	426.0	427.9	427.0	424.2
7.5°	427.9	425.2	427.9	427.9	426.0
10°	426.0	423.4	426.0	427.0	426.0
12.5°	423.4	420.6	425.2	427.0	427.9
15°	418.6	416.9	422.4	429.7	431.7
17.5°	414.2	413.3	421.6	429.7	430.7
20°	407.7	407.7	420.6	427.0	427.9
22.5°	402.4	402.4	416.9	423.4	427.0
25°	395.0	395.8	411.5	419.8	423.4
27.5°	386.7	389.5	405.0	414.2	417.8
30°	377.6	382.1	398.6	407.7	412.5
32.5°	366.7	372.9	389.5	398.6	403.2
35°	356.4	362.9	380.2	389.5	395.0
37.5°	343.7	351.8	369.3	378.4	384.9
40°	331.8	340.1	356.4	366.7	372.9
42.5°	317.9	327.1	342.7	352.8	359.2
45°	304.2	312.4	328.0	338.1	344.5
47.5°	289.6	297.9	313.5	322.7	328.9
50°	273.9	283.1	296.9	306.0	311.6
52.5°	258.3	266.6	279.5	288.8	294.1
55°	241.8	249.2	261.2	269.5	273.9
57.5°	224.4	231.7	241.8	250.1	254.7
60°	207.0	212.5	221.8	229.9	233.7
62.5°	188.7	193.4	201.6	208.1	212.5
65°	169.5	173.2	180.4	186.9	190.7
67.5°	149.4	153.0	159.4	164.9	167.7
70°	129.2	132.8	137.5	141.9	144.7
72.5°	109.8	111.8	116.4	120.1	121.9
75°	89.8	91.6	95.3	98.9	99.9
77.5°	71.5	72.4	75.3	77.1	77.9
80°	52.3	54.1	55.9	56.7	57.9
82.5°	35.7	36.7	37.5	38.5	39.3
85°	21.0	21.8	21.8	23.0	23.0
87.5°	9.1	10.1	10.1	10.1	10.1
90°	1.0	1.0	1.0	0.0	0.0
92.5°	9.1	9.1	10.1	10.9	11.9
95°	28.4	29.3	32.1	33.9	35.7
97.5°	56.7	58.7	64.0	68.8	70.6
100°	91.6	95.3	103.6	109.8	112.8
102.5°	129.2	134.6	146.7	155.8	160.4
105°	168.7	176.0	192.5	204.4	209.9
107.5°	208.9	218.2	239.2	252.9	260.3
110°	249.2	261.2	284.0	302.3	307.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.6	302.3	329.8	350.0	360.1
115°	329.8	343.7	372.9	395.8	406.9
117.5°	368.5	383.0	415.1	440.8	450.8
120°	405.0	420.6	455.5	482.0	493.9
122.5°	441.6	456.5	493.0	521.3	536.1
125°	476.5	491.2	528.8	558.0	573.6
127.5°	509.6	523.1	562.7	592.9	607.5
130°	541.5	554.4	594.6	624.1	640.6
132.5°	571.8	583.7	624.1	652.5	669.9
135°	601.2	610.3	651.5	679.9	696.5
137.5°	628.5	635.1	675.5	703.8	719.5
140°	656.1	658.0	697.3	723.9	740.3
142.5°	680.9	679.9	717.5	743.1	758.8
145°	703.8	701.1	736.8	759.6	773.4
147.5°	725.7	719.5	753.2	772.6	785.3
150°	744.9	736.8	766.1	785.3	796.2
152.5°	761.4	752.2	777.0	794.4	805.4
155°	778.0	767.1	787.1	803.6	812.9
157.5°	792.6	778.8	794.4	809.1	816.6
160°	805.4	791.8	801.8	812.9	818.4
162.5°	816.6	802.7	807.3	813.7	818.4
165°	825.7	812.9	812.9	815.5	818.4
167.5°	832.9	822.0	816.6	817.4	818.4
170°	839.4	828.3	822.8	817.4	816.6
172.5°	844.0	832.9	828.3	821.0	815.5
175°	847.6	837.6	831.9	825.7	819.2
177.5°	848.5	840.2	835.7	829.3	823.8
180°	836.6	836.6	836.6	836.6	836.6

(END OF REPORT)