

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: P253351

Luminaire Tested: **J3-FL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253351
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-40L840-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

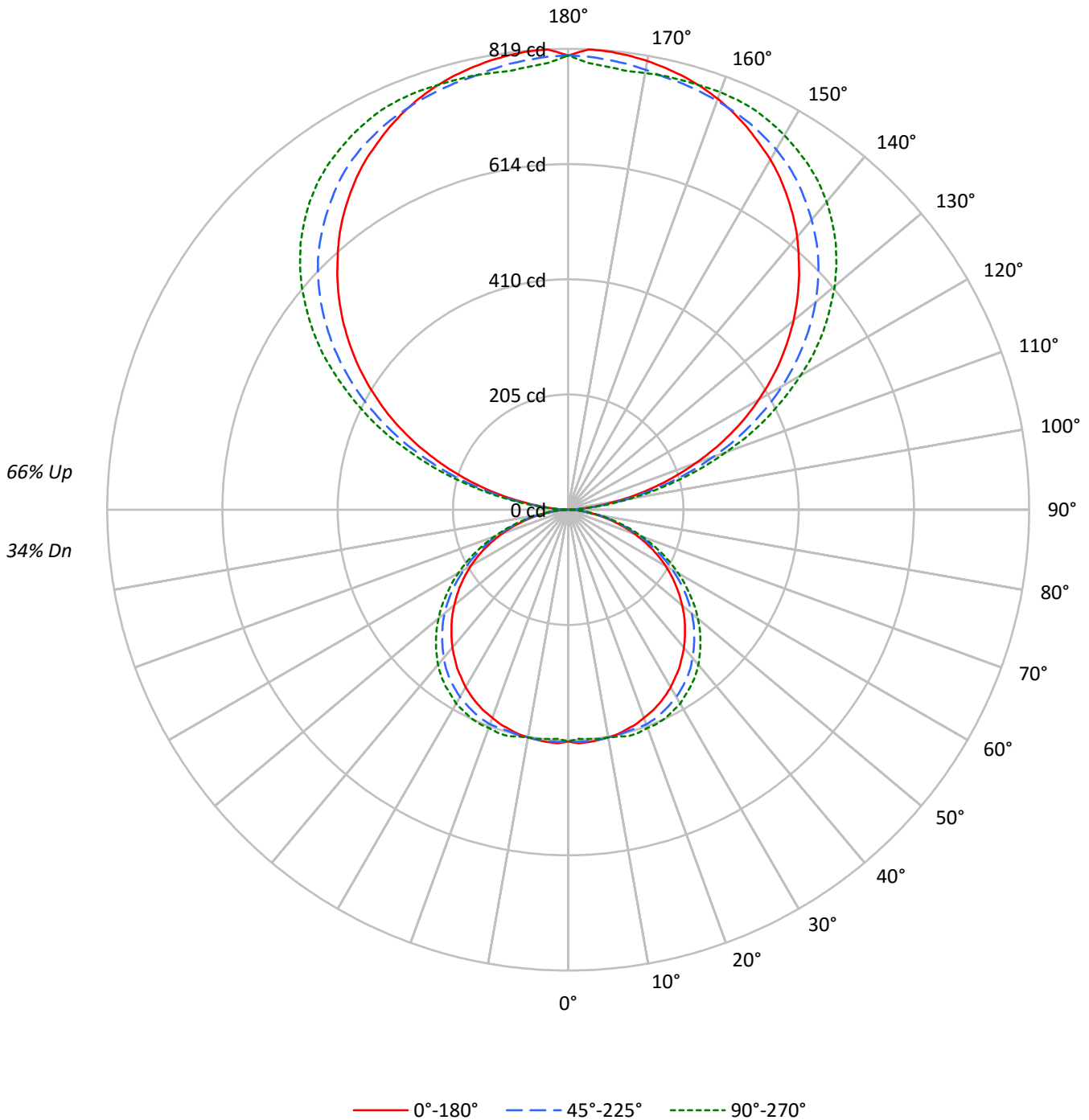
Lumens per Lamp: N/A
Luminaire Lumens: 3939.5 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 25.9
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	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°	3325	3325	3325
5°	3360	3346	3316
10°	3369	3369	3369
15°	3376	3406	3481
20°	3380	3486	3547
25°	3395	3536	3639
30°	3396	3585	3709
35°	3388	3615	3756
40°	3373	3623	3791
45°	3351	3613	3795
50°	3319	3598	3775
55°	3284	3547	3720
60°	3224	3455	3641
65°	3123	3324	3513
70°	2943	3132	3295
75°	2701	2870	3007
80°	2348	2506	2594
85°	1880	1954	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.0
10°-20°	115.6	2.9
20°-30°	182.0	4.6
30°-40°	227.4	5.8
40°-50°	242.4	6.2
50°-60°	223.6	5.7
60°-70°	171.7	4.4
70°-80°	97.3	2.5
80°-90°	25.6	0.7
90°-100°	41.3	1.0
100°-110°	194.4	4.9
110°-120°	352.3	8.9
120°-130°	452.5	11.5
130°-140°	481.4	12.2
140°-150°	442.9	11.2
150°-160°	350.7	8.9
160°-170°	222.7	5.7
170°-180°	76.4	1.9
0°-30°	336.9	8.6
0°-40°	564.4	14.3
0°-60°	1030.4	26.2
0°-90°	1325.0	33.6
90°-120°	587.9	14.9
90°-150°	1964.8	49.9
90°-180°	2615.0	66.4
0°-180°	3939.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	415	411	413	412	409	39
15°	404	402	408	415	416	114
25°	381	382	397	405	408	176
35°	344	350	367	376	381	215
45°	294	301	316	326	332	226
55°	233	240	252	260	264	208
65°	164	167	174	180	184	161
75°	87	88	92	95	96	92
85°	20	21	21	22	22	23
90°	1	1	1	0	0	3
95°	27	28	31	33	34	36
105°	163	170	186	197	202	172
115°	318	332	360	382	393	314
125°	460	474	510	538	553	410
135°	580	589	629	656	672	447
145°	679	676	711	733	746	425
155°	751	740	759	775	784	346
165°	797	784	784	787	790	225
175°	818	808	803	797	790	78
180°	807	807	807	807	807	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.9	411.9	411.9	411.9	411.9
2.5°	415.5	411.9	412.9	412.9	407.5
5°	414.6	411.0	412.9	411.9	409.2
7.5°	412.9	410.2	412.9	412.9	411.0
10°	411.0	408.5	411.0	411.9	411.0
12.5°	408.5	405.8	410.2	411.9	412.9
15°	403.9	402.2	407.5	414.6	416.5
17.5°	399.7	398.7	406.7	414.6	415.5
20°	393.4	393.4	405.8	411.9	412.9
22.5°	388.2	388.2	402.2	408.5	411.9
25°	381.1	381.9	397.0	405.0	408.5
27.5°	373.1	375.8	390.7	399.7	403.1
30°	364.3	368.7	384.6	393.4	397.9
32.5°	353.7	359.7	375.8	384.6	389.0
35°	343.8	350.1	366.8	375.8	381.1
37.5°	331.6	339.4	356.3	365.1	371.4
40°	320.1	328.1	343.8	353.7	359.7
42.5°	306.7	315.5	330.6	340.4	346.5
45°	293.5	301.4	316.5	326.2	332.4
47.5°	279.4	287.4	302.5	311.3	317.3
50°	264.3	273.1	286.5	295.3	300.6
52.5°	249.2	257.2	269.6	278.6	283.8
55°	233.3	240.4	252.0	260.0	264.3
57.5°	216.5	223.6	233.3	241.3	245.7
60°	199.7	205.0	214.0	221.8	225.5
62.5°	182.1	186.6	194.5	200.8	205.0
65°	163.5	167.1	174.0	180.3	183.9
67.5°	144.2	147.6	153.8	159.1	161.8
70°	124.7	128.1	132.7	136.9	139.6
72.5°	106.0	107.9	112.3	115.9	117.6
75°	86.6	88.4	92.0	95.4	96.4
77.5°	69.0	69.8	72.6	74.4	75.2
80°	50.5	52.2	53.9	54.7	55.8
82.5°	34.4	35.4	36.2	37.1	37.9
85°	20.3	21.1	21.1	22.2	22.2
87.5°	8.8	9.7	9.7	9.7	9.7
90°	0.9	0.9	0.9	0.0	0.0
92.5°	8.8	8.8	9.7	10.5	11.5
95°	27.4	28.3	31.0	32.7	34.4
97.5°	54.7	56.6	61.8	66.3	68.1
100°	88.4	92.0	100.0	106.0	108.8
102.5°	124.7	129.9	141.5	150.3	154.7
105°	162.7	169.8	185.7	197.2	202.5
107.5°	201.6	210.5	230.8	244.0	251.1
110°	240.4	252.0	274.0	291.6	297.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.4	291.6	318.2	337.7	347.5
115°	318.2	331.6	359.7	381.9	392.6
117.5°	355.5	369.5	400.4	425.3	434.9
120°	390.7	405.8	439.4	465.1	476.5
122.5°	426.1	440.4	475.6	503.0	517.3
125°	459.7	473.9	510.2	538.3	553.4
127.5°	491.6	504.7	542.9	572.0	586.1
130°	522.4	534.9	573.7	602.2	618.0
132.5°	551.7	563.2	602.2	629.5	646.3
135°	580.0	588.8	628.6	655.9	672.0
137.5°	606.4	612.7	651.7	679.0	694.1
140°	633.0	634.9	672.8	698.4	714.3
142.5°	656.9	655.9	692.2	716.9	732.0
145°	679.0	676.4	710.8	732.8	746.2
147.5°	700.1	694.1	726.7	745.4	757.7
150°	718.7	710.8	739.1	757.7	768.2
152.5°	734.5	725.7	749.6	766.5	777.0
155°	750.6	740.0	759.4	775.3	784.2
157.5°	764.7	751.4	766.5	780.6	787.8
160°	777.0	763.9	773.5	784.2	789.6
162.5°	787.8	774.5	778.9	785.0	789.6
165°	796.6	784.2	784.2	786.7	789.6
167.5°	803.6	793.0	787.8	788.6	789.6
170°	809.8	799.2	793.8	788.6	787.8
172.5°	814.3	803.6	799.2	792.1	786.7
175°	817.7	808.1	802.6	796.6	790.4
177.5°	818.7	810.6	806.2	800.1	794.8
180°	807.2	807.2	807.2	807.2	807.2

(END OF REPORT)