

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: P253346

Luminaire Tested: **J3-FL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253346
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-50L835-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

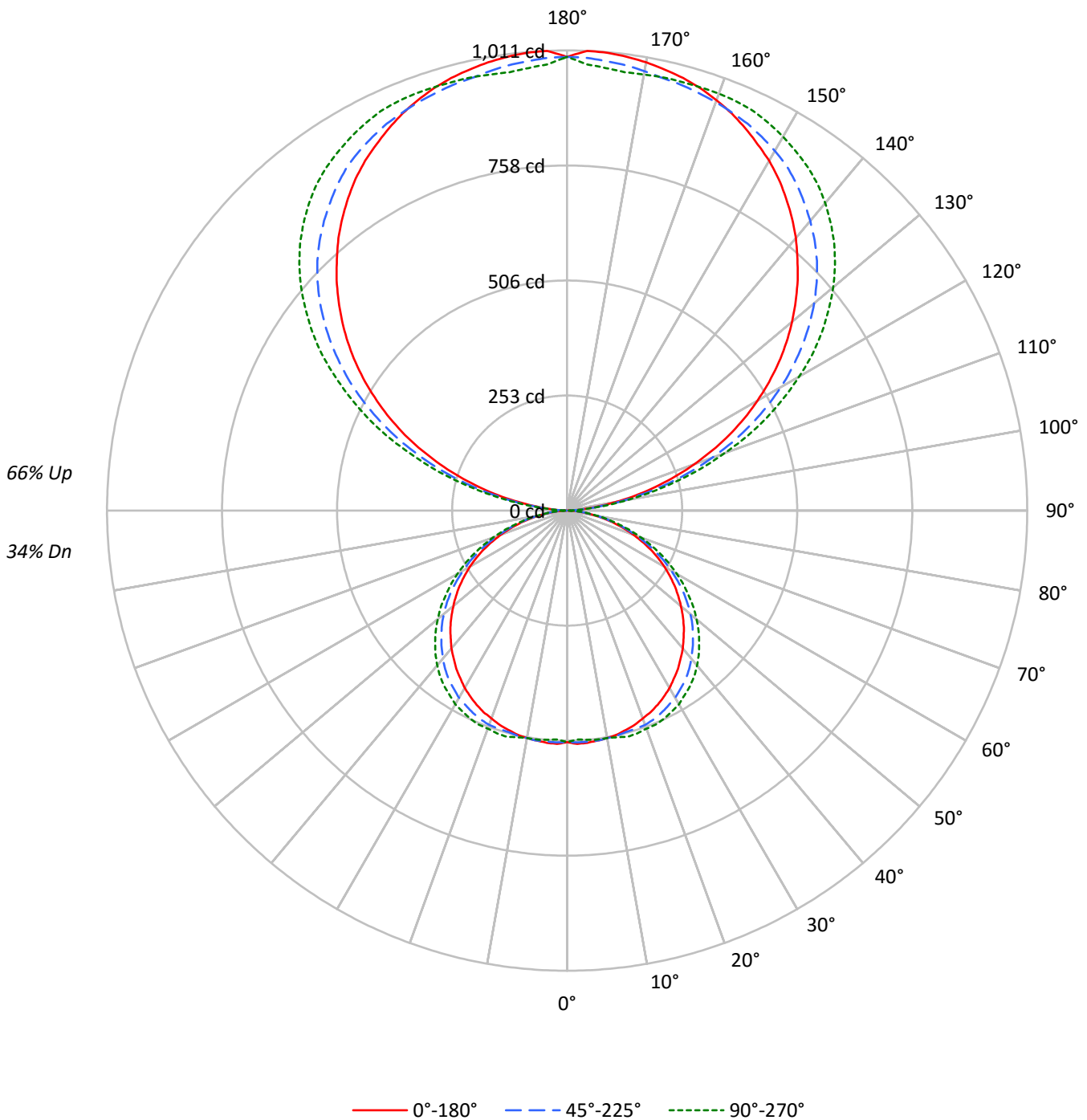
Lumens per Lamp: N/A
Luminaire Lumens: 4864.9 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
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



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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	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°	4107	4107	4107
5°	4149	4131	4096
10°	4160	4160	4160
15°	4169	4206	4298
20°	4174	4305	4380
25°	4192	4366	4493
30°	4193	4427	4581
35°	4185	4464	4638
40°	4166	4475	4681
45°	4139	4462	4685
50°	4099	4442	4662
55°	4055	4380	4594
60°	3982	4266	4495
65°	3857	4105	4340
70°	3635	3869	4069
75°	3337	3543	3712
80°	2896	3096	3203
85°	2316	2408	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.0
10°-20°	142.7	2.9
20°-30°	224.8	4.6
30°-40°	280.9	5.8
40°-50°	299.4	6.2
50°-60°	276.1	5.7
60°-70°	212.0	4.4
70°-80°	120.1	2.5
80°-90°	31.7	0.7
90°-100°	51.0	1.0
100°-110°	240.0	4.9
110°-120°	435.0	8.9
120°-130°	558.8	11.5
130°-140°	594.5	12.2
140°-150°	547.0	11.2
150°-160°	433.1	8.9
160°-170°	275.0	5.7
170°-180°	94.3	1.9
0°-30°	416.0	8.6
0°-40°	696.9	14.3
0°-60°	1272.4	26.2
0°-90°	1636.2	33.6
90°-120°	726.1	14.9
90°-150°	2426.3	49.9
90°-180°	3229.0	66.4
0°-180°	4864.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	512	508	510	509	505	49
15°	499	497	503	512	514	141
25°	471	472	490	500	504	217
35°	425	432	453	464	471	265
45°	362	372	391	403	410	279
55°	288	297	311	321	326	257
65°	202	206	215	223	227	199
75°	107	109	114	118	119	114
85°	25	26	26	27	27	28
90°	1	1	1	0	0	3
95°	34	35	38	40	42	44
105°	201	210	229	244	250	213
115°	393	410	444	472	485	388
125°	568	585	630	665	683	507
135°	716	727	776	810	830	552
145°	838	835	878	905	921	525
155°	927	914	938	957	968	427
165°	984	968	968	972	975	278
175°	1010	998	991	984	976	96
180°	997	997	997	997	997	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	513.1	508.7	509.8	509.8	503.2
5°	512.0	507.5	509.8	508.7	505.4
7.5°	509.8	506.5	509.8	509.8	507.5
10°	507.5	504.4	507.5	508.7	507.5
12.5°	504.4	501.1	506.5	508.7	509.8
15°	498.8	496.6	503.2	512.0	514.3
17.5°	493.5	492.4	502.3	512.0	513.1
20°	485.8	485.8	501.1	508.7	509.8
22.5°	479.4	479.4	496.6	504.4	508.7
25°	470.6	471.6	490.2	500.1	504.4
27.5°	460.7	464.0	482.5	493.5	497.8
30°	449.8	455.3	474.9	485.8	491.4
32.5°	436.8	444.2	464.0	474.9	480.3
35°	424.6	432.4	453.0	464.0	470.6
37.5°	409.5	419.2	439.9	450.8	458.6
40°	395.3	405.2	424.6	436.8	444.2
42.5°	378.8	389.7	408.3	420.3	427.9
45°	362.5	372.2	390.8	402.9	410.4
47.5°	345.0	354.9	373.5	384.4	391.8
50°	326.4	337.2	353.7	364.6	371.2
52.5°	307.7	317.6	333.0	344.0	350.4
55°	288.1	296.9	311.2	321.1	326.4
57.5°	267.3	276.1	288.1	298.0	303.5
60°	246.6	253.2	264.2	273.9	278.4
62.5°	224.8	230.5	240.2	247.9	253.2
65°	201.9	206.4	214.9	222.7	227.2
67.5°	178.0	182.3	189.9	196.5	199.8
70°	154.0	158.2	163.9	169.1	172.4
72.5°	130.9	133.2	138.6	143.1	145.2
75°	107.0	109.1	113.6	117.8	119.0
77.5°	85.2	86.2	89.7	91.8	92.8
80°	62.3	64.5	66.6	67.6	68.9
82.5°	42.5	43.7	44.7	45.8	46.8
85°	25.0	26.0	26.0	27.4	27.4
87.5°	10.9	12.0	12.0	12.0	12.0
90°	1.2	1.2	1.2	0.0	0.0
92.5°	10.9	10.9	12.0	13.0	14.2
95°	33.8	34.9	38.2	40.4	42.5
97.5°	67.6	69.9	76.3	81.9	84.1
100°	109.1	113.6	123.5	130.9	134.4
102.5°	154.0	160.4	174.7	185.6	191.0
105°	200.9	209.7	229.3	243.5	250.1
107.5°	248.9	260.0	285.0	301.3	310.1
110°	296.9	311.2	338.4	360.2	366.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	345.0	360.2	393.0	417.0	429.1
115°	393.0	409.5	444.2	471.6	484.8
117.5°	439.0	456.3	494.5	525.2	537.0
120°	482.5	501.1	542.7	574.3	588.5
122.5°	526.1	543.8	587.3	621.1	638.8
125°	567.7	585.2	630.0	664.8	683.4
127.5°	607.1	623.2	670.4	706.3	723.8
130°	645.2	660.5	708.5	743.6	763.2
132.5°	681.3	695.4	743.6	777.4	798.2
135°	716.2	727.1	776.2	810.0	829.8
137.5°	748.8	756.6	804.8	838.5	857.2
140°	781.7	784.0	830.8	862.4	882.0
142.5°	811.2	810.0	854.8	885.3	904.0
145°	838.5	835.2	877.8	904.9	921.4
147.5°	864.6	857.2	897.4	920.5	935.6
150°	887.5	877.8	912.7	935.6	948.6
152.5°	907.1	896.2	925.7	946.5	959.5
155°	926.9	913.9	937.7	957.4	968.4
157.5°	944.4	927.8	946.5	964.0	972.9
160°	959.5	943.4	955.2	968.4	975.0
162.5°	972.9	956.4	961.8	969.4	975.0
165°	983.8	968.4	968.4	971.5	975.0
167.5°	992.3	979.3	972.9	973.9	975.0
170°	1000.1	986.9	980.3	973.9	972.9
172.5°	1005.5	992.3	986.9	978.1	971.5
175°	1009.8	997.9	991.1	983.8	976.0
177.5°	1010.9	1001.0	995.6	988.0	981.4
180°	996.8	996.8	996.8	996.8	996.8

(END OF REPORT)