

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: P253318

Luminaire Tested: **J3-UL-80L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-80L840-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

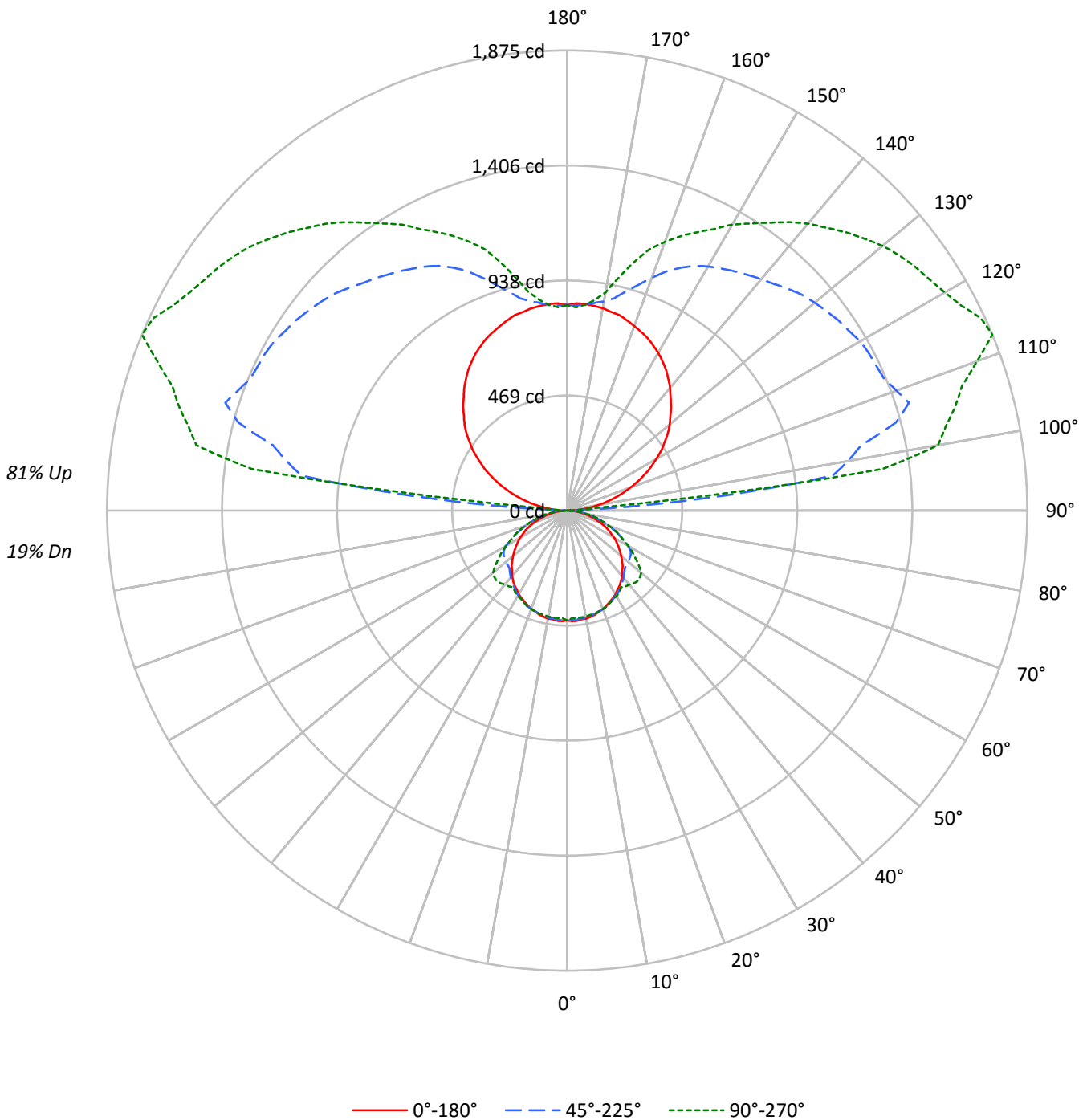
Lumens per Lamp: N/A  
Luminaire Lumens: 8106.1 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.33 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 57.2  
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	36	30	28	26	18	17	16	10				
4	68	58	50	44	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	43	38	55	45	39	34	34	30	26	24	21	19	14	13	11	7				
6	57	46	38	32	50	40	34	29	31	26	23	21	18	16	13	11	10	6				
7	53	41	33	28	46	36	30	25	28	23	20	19	16	14	12	10	9	6				
8	49	37	30	24	43	33	26	22	25	20	17	18	15	12	11	9	8	5				
9	45	33	26	21	40	30	24	19	23	18	15	16	13	11	10	8	7	4				
10	42	30	24	19	37	27	21	17	21	16	13	15	12	10	9	7	6	4				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3610	3610	3610
5°	3657	3624	3558
10°	3666	3632	3599
15°	3669	3635	3635
20°	3666	3666	3666
25°	3655	3691	3691
30°	3672	3710	3748
35°	3680	3720	3761
40°	3676	3762	4151
45°	3653	3794	4638
50°	3607	4122	4947
55°	3581	4446	4792
60°	3578	4637	4637
65°	3526	4468	4468
70°	3389	4260	4260
75°	3200	3968	4095
80°	3050	3817	3817
85°	2658	4557	3798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	0.5
10°-20°	122.9	1.5
20°-30°	190.5	2.4
30°-40°	237.5	2.9
40°-50°	270.7	3.3
50°-60°	270.4	3.3
60°-70°	215.4	2.7
70°-80°	132.6	1.6
80°-90°	47.5	0.6
90°-100°	503.8	6.2
100°-110°	1227.3	15.1
110°-120°	1254.8	15.5
120°-130°	1113.5	13.7
130°-140°	932.0	11.5
140°-150°	713.1	8.8
150°-160°	485.2	6.0
160°-170°	265.4	3.3
170°-180°	81.2	1.0
0°-30°	355.8	4.4
0°-40°	593.3	7.3
0°-60°	1134.4	14.0
0°-90°	1529.8	18.9
90°-120°	2985.9	36.8
90°-150°	5744.5	70.9
90°-180°	6576.0	81.1
0°-180°	8106.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	451	443	447	443	439	43
15°	439	435	435	435	435	124
25°	410	410	414	414	414	189
35°	373	373	378	382	382	233
45°	320	320	332	386	406	246
55°	254	258	316	340	340	228
65°	185	197	234	234	234	181
75°	103	127	127	131	131	109
85°	29	41	49	45	41	32
90°	8	16	8	0	0	10
95°	66	538	538	66	66	66
105°	201	825	1387	1551	1637	212
115°	349	841	1391	1740	1859	345
125°	484	870	1350	1641	1732	434
135°	599	907	1276	1530	1604	462
145°	702	899	1190	1383	1432	438
155°	776	853	1091	1227	1251	357
165°	825	841	923	1018	1046	232
175°	845	837	841	845	841	80
180°	837	837	837	837	837	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	447.2	447.2	447.2	447.2	447.2
2.5°	451.3	447.2	447.2	443.1	439.0
5°	451.3	443.1	447.2	443.1	439.0
7.5°	447.2	443.1	443.1	443.1	439.0
10°	447.2	439.0	443.1	439.0	439.0
12.5°	443.1	439.0	439.0	439.0	434.9
15°	439.0	434.9	434.9	434.9	434.9
17.5°	430.8	426.7	430.8	430.8	430.8
20°	426.7	422.6	426.7	426.7	426.7
22.5°	418.5	414.4	422.6	422.6	422.6
25°	410.3	410.3	414.4	414.4	414.4
27.5°	402.1	402.1	406.2	410.3	406.2
30°	393.9	389.8	398.0	402.1	402.1
32.5°	381.6	381.6	389.8	389.8	393.9
35°	373.4	373.4	377.5	381.6	381.6
37.5°	361.1	361.1	369.3	373.4	389.8
40°	348.8	348.8	357.0	377.5	393.9
42.5°	332.3	336.4	344.6	377.5	402.1
45°	320.0	320.0	332.3	385.7	406.2
47.5°	303.6	307.7	328.2	385.7	402.1
50°	287.2	291.3	328.2	381.6	393.9
52.5°	270.8	274.9	320.0	365.2	369.3
55°	254.4	258.5	315.9	340.5	340.5
57.5°	238.0	242.1	307.7	315.9	315.9
60°	221.6	225.7	287.2	287.2	287.2
62.5°	201.0	205.1	258.5	258.5	258.5
65°	184.6	196.9	233.9	233.9	233.9
67.5°	164.1	180.5	205.1	209.3	209.3
70°	143.6	168.2	180.5	180.5	180.5
72.5°	123.1	151.8	151.8	155.9	155.9
75°	102.6	127.2	127.2	131.3	131.3
77.5°	82.1	102.6	102.6	106.7	106.7
80°	65.6	78.0	82.1	82.1	82.1
82.5°	49.2	61.5	61.5	61.5	61.5
85°	28.7	41.0	49.2	45.1	41.0
87.5°	16.4	32.8	32.8	28.7	24.6
90°	8.2	16.4	8.2	0.0	0.0
92.5°	41.0	135.4	41.0	28.7	28.7
95°	65.6	537.5	537.5	65.6	65.6
97.5°	94.4	664.7	1091.4	1374.5	1296.5
100°	127.2	828.8	1161.1	1436.0	1534.5
102.5°	164.1	816.5	1226.8	1489.4	1579.6
105°	201.0	824.7	1386.8	1550.9	1637.1
107.5°	238.0	824.7	1460.7	1592.0	1686.3
110°	274.9	824.7	1427.8	1760.2	1776.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	311.8	832.9	1399.1	1772.5	1875.1
115°	348.8	841.1	1390.9	1739.7	1858.6
117.5°	385.7	845.2	1386.8	1698.6	1809.4
120°	418.5	849.3	1378.6	1682.2	1776.6
122.5°	455.4	857.5	1362.2	1661.7	1752.0
125°	484.2	869.8	1349.9	1641.2	1731.5
127.5°	517.0	878.0	1333.5	1620.7	1706.8
130°	545.7	890.3	1317.1	1587.9	1678.1
132.5°	570.3	902.7	1300.6	1563.2	1641.2
135°	599.0	906.8	1276.0	1530.4	1604.3
137.5°	623.7	910.9	1251.4	1501.7	1563.2
140°	652.4	906.8	1230.9	1460.7	1526.3
142.5°	677.0	902.7	1210.4	1419.6	1481.2
145°	701.6	898.6	1189.9	1382.7	1431.9
147.5°	722.1	890.3	1169.3	1341.7	1386.8
150°	742.6	878.0	1148.8	1304.7	1345.8
152.5°	759.1	865.7	1124.2	1263.7	1292.4
155°	775.5	853.4	1091.4	1226.8	1251.4
157.5°	787.8	845.2	1054.5	1185.8	1210.4
160°	800.1	841.1	1009.3	1144.7	1165.2
162.5°	812.4	841.1	964.2	1091.4	1116.0
165°	824.7	841.1	923.2	1017.5	1046.3
167.5°	828.8	837.0	886.2	947.8	972.4
170°	837.0	837.0	865.7	894.4	902.7
172.5°	841.1	837.0	853.4	865.7	865.7
175°	845.2	837.0	841.1	845.2	841.1
177.5°	845.2	837.0	837.0	837.0	828.8
180°	837.0	837.0	837.0	837.0	837.0

(END OF REPORT)