

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: P253324

Luminaire Tested: **J3-CL-80L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253324
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-80L830-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

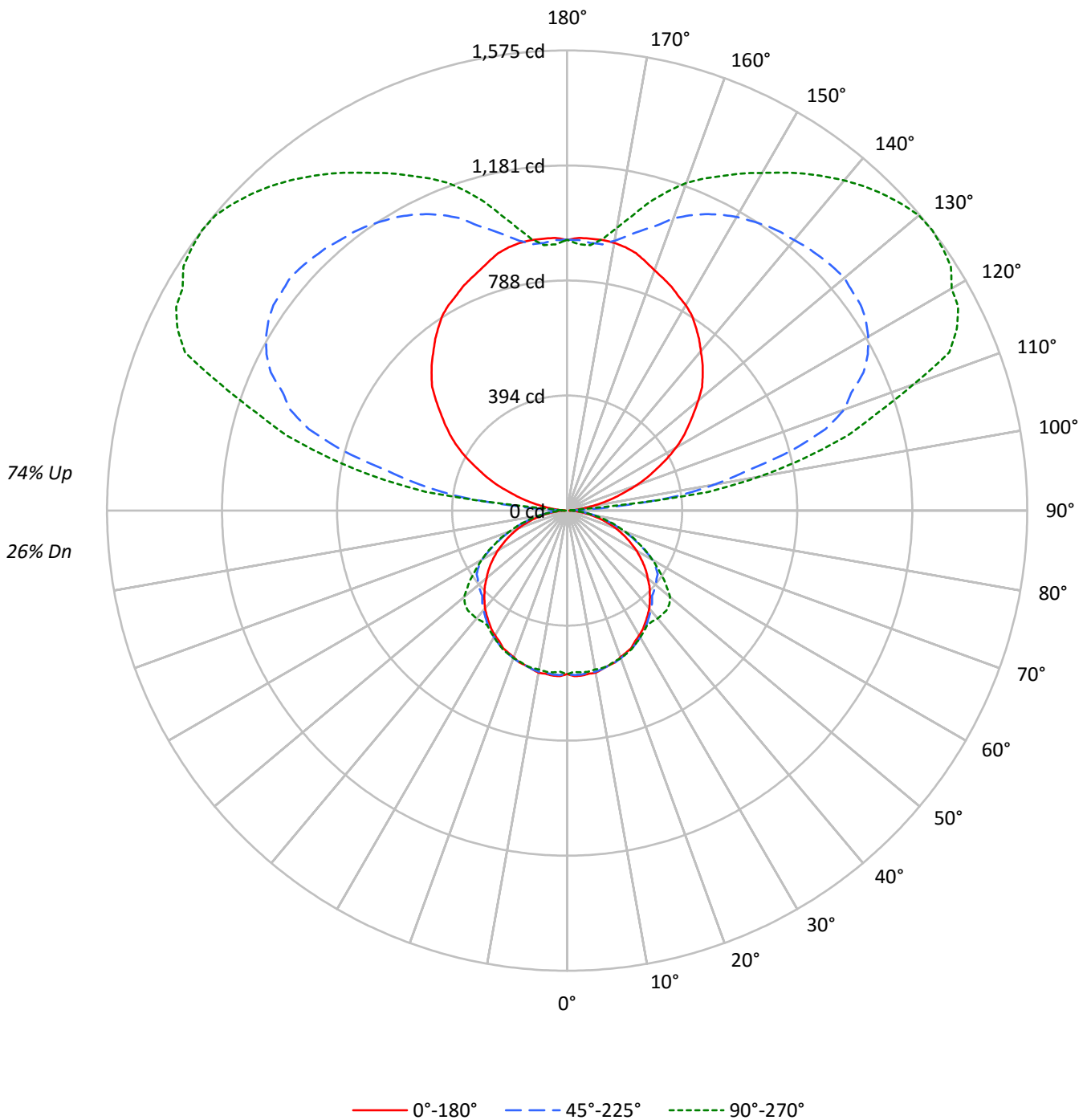
Lumens per Lamp: N/A
Luminaire Lumens: 7324.2 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	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°	4518	4518	4518
5°	4596	4566	4506
10°	4618	4588	4527
15°	4585	4585	4585
20°	4586	4618	4618
25°	4623	4656	4656
30°	4596	4665	4665
35°	4603	4676	4713
40°	4610	4688	5078
45°	4570	4698	5502
50°	4516	4981	5772
55°	4487	5322	5634
60°	4429	5446	5446
65°	4319	5169	5240
70°	4199	4900	4987
75°	3930	4626	4741
80°	3617	4482	4310
85°	3436	4807	4122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	0.7
10°-20°	154.9	2.1
20°-30°	239.4	3.3
30°-40°	297.0	4.1
40°-50°	332.3	4.5
50°-60°	324.7	4.4
60°-70°	256.2	3.5
70°-80°	155.0	2.1
80°-90°	55.2	0.8
90°-100°	190.2	2.6
100°-110°	735.7	10.0
110°-120°	1011.1	13.8
120°-130°	1022.9	14.0
130°-140°	906.5	12.4
140°-150°	717.0	9.8
150°-160°	500.6	6.8
160°-170°	283.3	3.9
170°-180°	88.8	1.2
0°-30°	447.7	6.1
0°-40°	744.7	10.2
0°-60°	1401.7	19.1
0°-90°	1868.1	25.5
90°-120°	1937.0	26.4
90°-150°	4583.4	62.6
90°-180°	5456.0	74.5
0°-180°	7324.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	567	560	563	560	556	54
15°	549	545	549	549	549	155
25°	519	512	523	523	523	238
35°	467	467	474	478	478	292
45°	400	404	412	463	482	309
55°	319	322	378	400	400	285
65°	226	237	271	274	274	223
75°	126	148	148	152	152	133
85°	37	59	52	48	44	39
90°	7	22	18	4	4	7
95°	30	148	178	37	37	37
105°	163	526	797	919	993	173
115°	337	712	1120	1386	1472	336
125°	508	823	1227	1494	1568	454
135°	656	904	1227	1468	1531	505
145°	767	927	1190	1364	1409	480
155°	845	904	1120	1242	1264	390
165°	912	908	993	1079	1094	256
175°	934	923	919	919	912	89
180°	927	927	927	927	927	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.7	559.7	559.7	559.7	559.7
2.5°	567.1	559.7	563.4	559.7	552.3
5°	567.1	559.7	563.4	559.7	556.0
7.5°	563.4	559.7	559.7	556.0	556.0
10°	563.4	556.0	559.7	556.0	552.3
12.5°	556.0	552.3	556.0	552.3	552.3
15°	548.6	544.9	548.6	548.6	548.6
17.5°	544.9	537.5	544.9	544.9	541.2
20°	533.8	530.1	537.5	537.5	537.5
22.5°	526.4	522.7	530.1	530.1	530.1
25°	519.0	511.5	522.7	522.7	522.7
27.5°	504.1	504.1	511.5	515.3	511.5
30°	493.0	489.3	500.4	504.1	500.4
32.5°	481.9	478.2	489.3	493.0	489.3
35°	467.1	467.1	474.5	478.2	478.2
37.5°	452.2	452.2	459.6	463.4	478.2
40°	437.4	437.4	444.8	467.1	481.9
42.5°	418.9	418.9	430.0	463.4	481.9
45°	400.3	404.0	411.5	463.4	481.9
47.5°	381.8	385.5	404.0	459.6	474.5
50°	359.6	367.0	396.6	448.5	459.6
52.5°	341.0	344.7	385.5	430.0	430.0
55°	318.8	322.5	378.1	400.3	400.3
57.5°	296.5	300.3	359.6	367.0	367.0
60°	274.3	278.0	337.3	337.3	337.3
62.5°	248.4	255.8	304.0	307.7	307.7
65°	226.1	237.2	270.6	274.3	274.3
67.5°	200.2	218.7	240.9	244.7	244.7
70°	177.9	200.2	207.6	211.3	211.3
72.5°	152.0	174.2	177.9	181.6	181.6
75°	126.0	148.3	148.3	152.0	152.0
77.5°	100.1	118.6	122.3	122.3	122.3
80°	77.8	89.0	96.4	92.7	92.7
82.5°	55.6	70.4	70.4	70.4	66.7
85°	37.1	59.3	51.9	48.2	44.5
87.5°	22.2	51.9	29.7	25.9	25.9
90°	7.4	22.2	18.5	3.7	3.7
92.5°	14.8	37.1	18.5	14.8	11.1
95°	29.7	148.3	177.9	37.1	37.1
97.5°	55.6	248.4	381.8	452.2	485.6
100°	85.3	370.7	511.5	626.5	667.2
102.5°	122.3	448.5	630.2	774.7	834.0
105°	163.1	526.4	797.0	919.3	993.4
107.5°	203.9	585.7	926.7	1063.9	1115.8
110°	252.1	633.9	1008.3	1245.5	1260.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	670.9	1052.7	1334.5	1416.0
115°	337.3	711.7	1119.5	1386.4	1471.6
117.5°	385.5	741.4	1160.2	1416.0	1508.7
120°	430.0	767.3	1189.9	1453.1	1519.8
122.5°	470.8	797.0	1212.1	1482.7	1556.9
125°	507.8	822.9	1227.0	1493.9	1568.0
127.5°	544.9	845.2	1230.7	1497.6	1575.4
130°	585.7	867.4	1238.1	1493.9	1571.7
132.5°	626.5	889.6	1234.4	1482.7	1553.2
135°	656.1	904.5	1227.0	1467.9	1530.9
137.5°	685.8	915.6	1219.6	1445.7	1505.0
140°	711.7	923.0	1208.4	1419.7	1475.3
142.5°	741.4	926.7	1201.0	1393.8	1442.0
145°	767.3	926.7	1189.9	1364.1	1408.6
147.5°	793.3	923.0	1175.1	1334.5	1371.5
150°	811.8	915.6	1160.2	1304.8	1334.5
152.5°	826.6	908.2	1141.7	1271.4	1301.1
155°	845.2	904.5	1119.5	1241.8	1264.0
157.5°	860.0	904.5	1093.5	1208.4	1230.7
160°	874.8	904.5	1063.9	1175.1	1193.6
162.5°	893.4	904.5	1023.1	1126.9	1145.4
165°	911.9	908.2	993.4	1078.7	1093.5
167.5°	923.0	908.2	963.8	1019.4	1034.2
170°	930.4	915.6	937.8	978.6	982.3
172.5°	934.1	923.0	919.3	937.8	937.8
175°	934.1	923.0	919.3	919.3	911.9
177.5°	934.1	926.7	926.7	923.0	911.9
180°	926.7	926.7	926.7	926.7	926.7

(END OF REPORT)