

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: P253493

Luminaire Tested: **J3-CL-80L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253493
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-80L93050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7141.7 lumens
Efficiency: N/A
Efficacy: 110.0 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

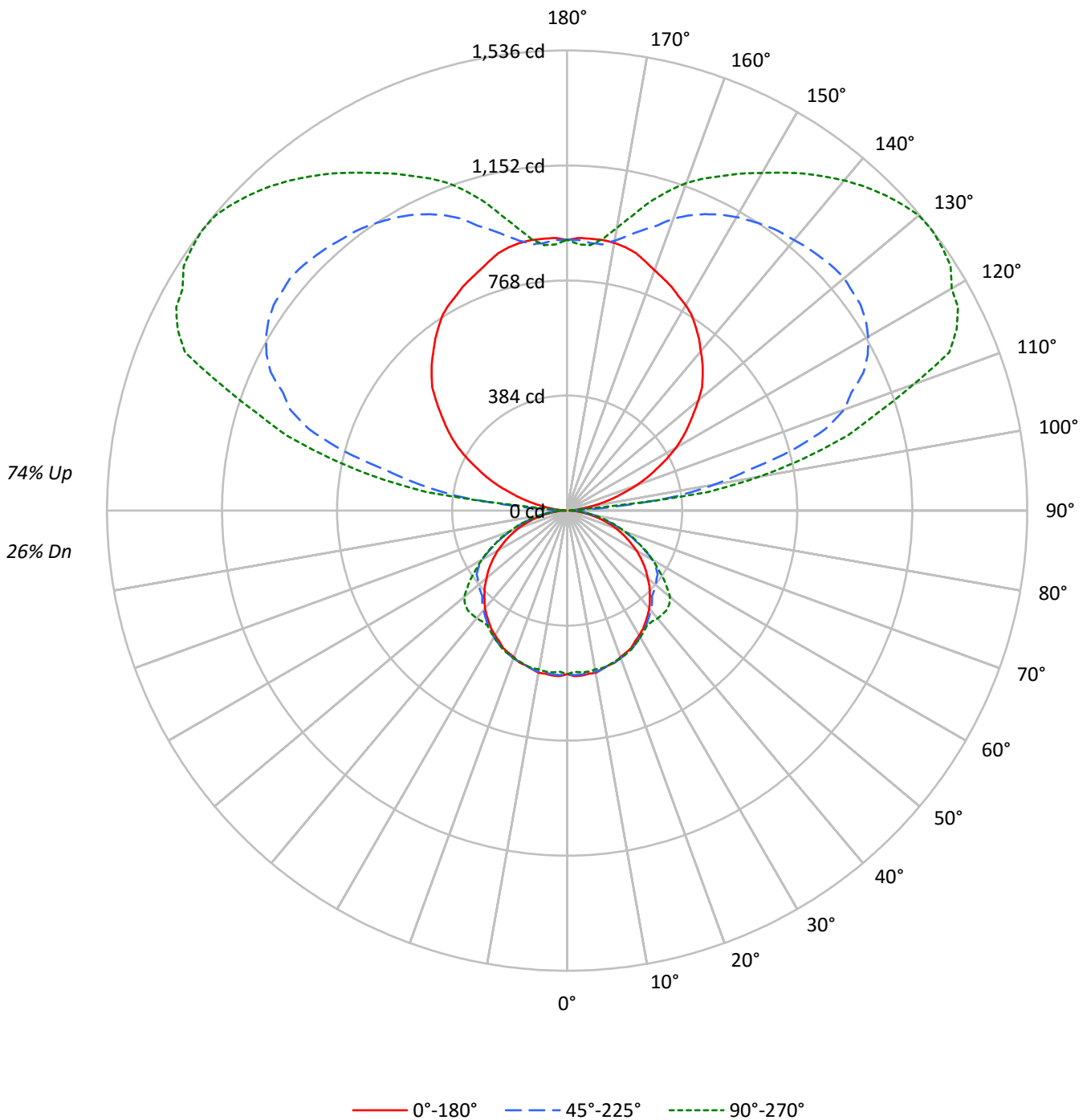
Input Watts (W): 64.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4406	4406	4406
5°	4481	4452	4394
10°	4504	4474	4415
15°	4471	4471	4471
20°	4472	4503	4503
25°	4507	4539	4539
30°	4481	4548	4548
35°	4488	4559	4596
40°	4495	4571	4952
45°	4457	4580	5365
50°	4403	4857	5629
55°	4374	5189	5495
60°	4319	5310	5310
65°	4212	5041	5110
70°	4095	4777	4862
75°	3833	4510	4623
80°	3529	4370	4203
85°	3344	4687	4020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	0.7
10°-20°	151.0	2.1
20°-30°	233.4	3.3
30°-40°	289.6	4.1
40°-50°	324.0	4.5
50°-60°	316.6	4.4
60°-70°	249.8	3.5
70°-80°	151.2	2.1
80°-90°	53.8	0.8
90°-100°	185.5	2.6
100°-110°	717.4	10.0
110°-120°	985.9	13.8
120°-130°	997.4	14.0
130°-140°	883.9	12.4
140°-150°	699.1	9.8
150°-160°	488.1	6.8
160°-170°	276.2	3.9
170°-180°	86.6	1.2
0°-30°	436.5	6.1
0°-40°	726.1	10.2
0°-60°	1366.7	19.1
0°-90°	1821.5	25.5
90°-120°	1888.7	26.4
90°-150°	4469.2	62.6
90°-180°	5320.0	74.5
0°-180°	7141.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	553	546	549	546	542	53
15°	535	531	535	535	535	152
25°	506	499	510	510	510	232
35°	455	455	463	466	466	285
45°	390	394	401	452	470	301
55°	311	314	369	390	390	278
65°	220	231	264	268	268	217
75°	123	145	145	148	148	130
85°	36	58	51	47	43	38
90°	7	22	18	4	4	7
95°	29	145	174	36	36	36
105°	159	513	777	896	969	169
115°	329	694	1092	1352	1435	328
125°	495	802	1196	1457	1529	443
135°	640	882	1196	1431	1493	493
145°	748	904	1160	1330	1374	468
155°	824	882	1092	1211	1232	380
165°	889	886	969	1052	1066	250
175°	911	900	896	896	889	87
180°	904	904	904	904	904	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	545.8	545.8	545.8	545.8	545.8
2.5°	553.0	545.8	549.4	545.8	538.6
5°	553.0	545.8	549.4	545.8	542.2
7.5°	549.4	545.8	545.8	542.2	542.2
10°	549.4	542.2	545.8	542.2	538.6
12.5°	542.2	538.6	542.2	538.6	538.6
15°	534.9	531.3	534.9	534.9	534.9
17.5°	531.3	524.1	531.3	531.3	527.7
20°	520.5	516.9	524.1	524.1	524.1
22.5°	513.3	509.6	516.9	516.9	516.9
25°	506.0	498.8	509.6	509.6	509.6
27.5°	491.6	491.6	498.8	502.4	498.8
30°	480.7	477.1	487.9	491.6	487.9
32.5°	469.9	466.3	477.1	480.7	477.1
35°	455.4	455.4	462.6	466.3	466.3
37.5°	441.0	441.0	448.2	451.8	466.3
40°	426.5	426.5	433.7	455.4	469.9
42.5°	408.4	408.4	419.3	451.8	469.9
45°	390.4	394.0	401.2	451.8	469.9
47.5°	372.3	375.9	394.0	448.2	462.6
50°	350.6	357.8	386.7	437.3	448.2
52.5°	332.5	336.1	375.9	419.3	419.3
55°	310.8	314.5	368.7	390.4	390.4
57.5°	289.2	292.8	350.6	357.8	357.8
60°	267.5	271.1	328.9	328.9	328.9
62.5°	242.2	249.4	296.4	300.0	300.0
65°	220.5	231.3	263.9	267.5	267.5
67.5°	195.2	213.3	234.9	238.6	238.6
70°	173.5	195.2	202.4	206.0	206.0
72.5°	148.2	169.9	173.5	177.1	177.1
75°	122.9	144.6	144.6	148.2	148.2
77.5°	97.6	115.7	119.3	119.3	119.3
80°	75.9	86.7	94.0	90.4	90.4
82.5°	54.2	68.7	68.7	68.7	65.1
85°	36.1	57.8	50.6	47.0	43.4
87.5°	21.7	50.6	28.9	25.3	25.3
90°	7.2	21.7	18.1	3.6	3.6
92.5°	14.5	36.1	18.1	14.5	10.8
95°	28.9	144.6	173.5	36.1	36.1
97.5°	54.2	242.2	372.3	441.0	473.5
100°	83.1	361.4	498.8	610.8	650.6
102.5°	119.3	437.3	614.5	755.4	813.2
105°	159.0	513.3	777.1	896.4	968.7
107.5°	198.8	571.1	903.6	1037.3	1087.9
110°	245.8	618.1	983.1	1214.5	1228.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.2	654.2	1026.5	1301.2	1380.7
115°	328.9	694.0	1091.6	1351.8	1434.9
117.5°	375.9	722.9	1131.3	1380.7	1471.1
120°	419.3	748.2	1160.2	1416.9	1481.9
122.5°	459.0	777.1	1181.9	1445.8	1518.1
125°	495.2	802.4	1196.4	1456.6	1528.9
127.5°	531.3	824.1	1200.0	1460.2	1536.1
130°	571.1	845.8	1207.2	1456.6	1532.5
132.5°	610.8	867.5	1203.6	1445.8	1514.5
135°	639.8	881.9	1196.4	1431.3	1492.8
137.5°	668.7	892.8	1189.2	1409.6	1467.5
140°	694.0	900.0	1178.3	1384.3	1438.5
142.5°	722.9	903.6	1171.1	1359.0	1406.0
145°	748.2	903.6	1160.2	1330.1	1373.5
147.5°	773.5	900.0	1145.8	1301.2	1337.3
150°	791.6	892.8	1131.3	1272.3	1301.2
152.5°	806.0	885.5	1113.2	1239.8	1268.7
155°	824.1	881.9	1091.6	1210.8	1232.5
157.5°	838.6	881.9	1066.3	1178.3	1200.0
160°	853.0	881.9	1037.3	1145.8	1163.9
162.5°	871.1	881.9	997.6	1098.8	1116.9
165°	889.2	885.5	968.7	1051.8	1066.3
167.5°	900.0	885.5	939.8	994.0	1008.4
170°	907.2	892.8	914.5	954.2	957.8
172.5°	910.8	900.0	896.4	914.5	914.5
175°	910.8	900.0	896.4	896.4	889.2
177.5°	910.8	903.6	903.6	900.0	889.2
180°	903.6	903.6	903.6	903.6	903.6

(END OF REPORT)