

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: P253445

Luminaire Tested: **J3-CL-80L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253445
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-80L83050-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229.6 lumens
Efficiency: N/A
Efficacy: 116.2 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

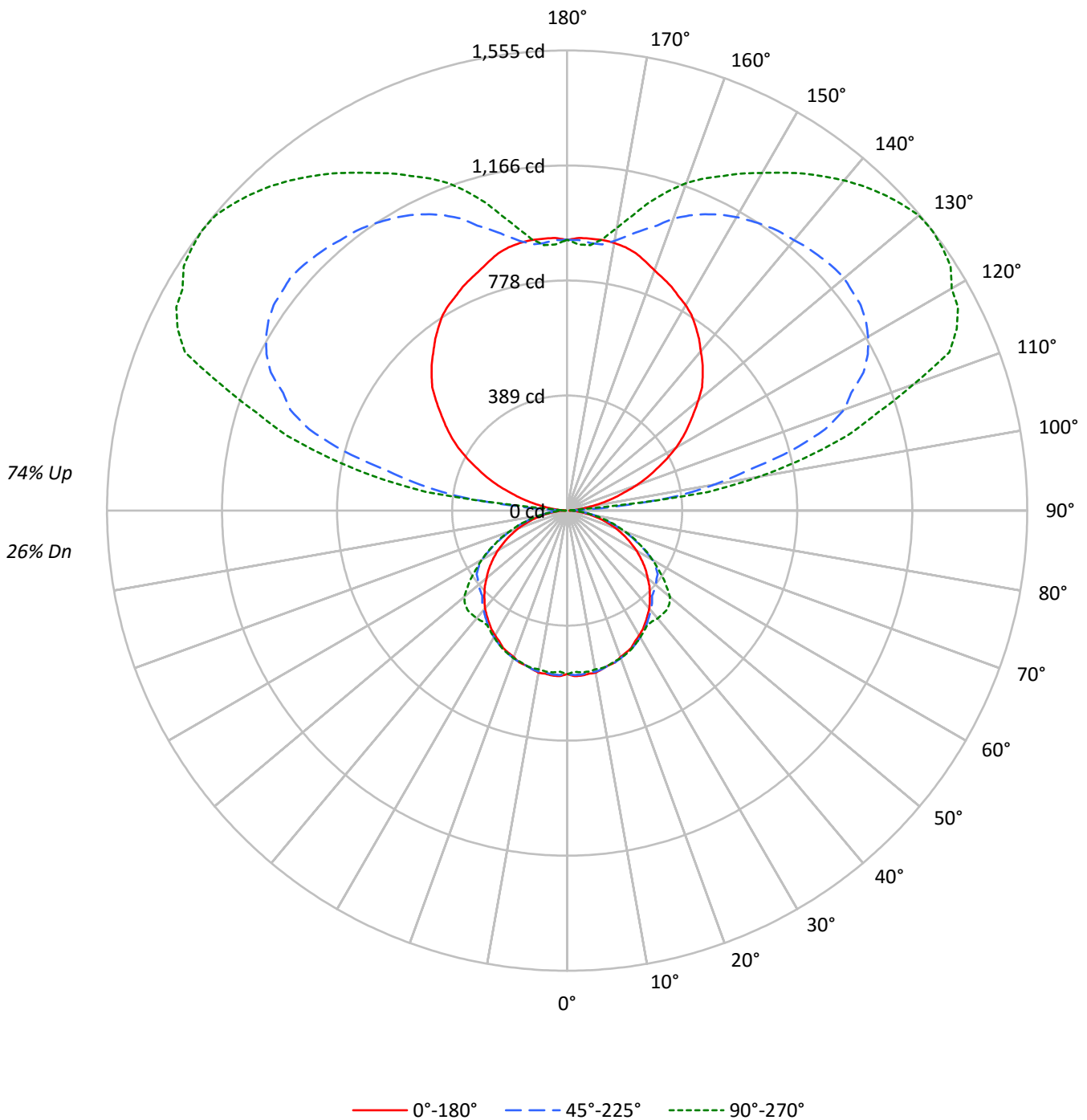
Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4460	4460	4460
5°	4536	4507	4447
10°	4559	4529	4469
15°	4526	4526	4526
20°	4527	4558	4558
25°	4563	4595	4595
30°	4536	4605	4605
35°	4543	4616	4652
40°	4551	4627	5013
45°	4512	4636	5431
50°	4457	4917	5698
55°	4429	5253	5562
60°	4372	5377	5377
65°	4264	5102	5173
70°	4145	4836	4924
75°	3880	4566	4679
80°	3570	4421	4254
85°	3390	4742	4066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	0.7
10°-20°	152.9	2.1
20°-30°	236.3	3.3
30°-40°	293.1	4.1
40°-50°	328.0	4.5
50°-60°	320.5	4.4
60°-70°	252.9	3.5
70°-80°	153.0	2.1
80°-90°	54.5	0.8
90°-100°	187.8	2.6
100°-110°	726.2	10.0
110°-120°	998.0	13.8
120°-130°	1009.7	14.0
130°-140°	894.8	12.4
140°-150°	707.7	9.8
150°-160°	494.2	6.8
160°-170°	279.6	3.9
170°-180°	87.7	1.2
0°-30°	441.9	6.1
0°-40°	735.0	10.2
0°-60°	1383.6	19.1
0°-90°	1843.9	25.5
90°-120°	1912.0	26.4
90°-150°	4524.2	62.6
90°-180°	5386.0	74.5
0°-180°	7229.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	560	552	556	552	549	53
15°	542	538	542	542	542	153
25°	512	505	516	516	516	235
35°	461	461	468	472	472	289
45°	395	399	406	457	476	305
55°	315	318	373	395	395	281
65°	223	234	267	271	271	220
75°	124	146	146	150	150	132
85°	37	58	51	48	44	38
90°	7	22	18	4	4	7
95°	29	146	176	37	37	36
105°	161	520	787	907	981	171
115°	333	702	1105	1368	1453	332
125°	501	812	1211	1475	1548	448
135°	648	893	1211	1449	1511	499
145°	757	915	1174	1346	1390	474
155°	834	893	1105	1226	1248	385
165°	900	896	981	1065	1079	253
175°	922	911	907	907	900	88
180°	915	915	915	915	915	



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CATALOG NUMBER: J3-CL-80L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	552.5	552.5	552.5	552.5	552.5
2.5°	559.8	552.5	556.2	552.5	545.2
5°	559.8	552.5	556.2	552.5	548.8
7.5°	556.2	552.5	552.5	548.8	548.8
10°	556.2	548.8	552.5	548.8	545.2
12.5°	548.8	545.2	548.8	545.2	545.2
15°	541.5	537.9	541.5	541.5	541.5
17.5°	537.9	530.6	537.9	537.9	534.2
20°	526.9	523.2	530.6	530.6	530.6
22.5°	519.6	515.9	523.2	523.2	523.2
25°	512.3	504.9	515.9	515.9	515.9
27.5°	497.6	497.6	504.9	508.6	504.9
30°	486.6	483.0	494.0	497.6	494.0
32.5°	475.7	472.0	483.0	486.6	483.0
35°	461.0	461.0	468.4	472.0	472.0
37.5°	446.4	446.4	453.7	457.4	472.0
40°	431.8	431.8	439.1	461.0	475.7
42.5°	413.5	413.5	424.4	457.4	475.7
45°	395.2	398.8	406.1	457.4	475.7
47.5°	376.9	380.5	398.8	453.7	468.4
50°	354.9	362.2	391.5	442.7	453.7
52.5°	336.6	340.3	380.5	424.4	424.4
55°	314.7	318.3	373.2	395.2	395.2
57.5°	292.7	296.4	354.9	362.2	362.2
60°	270.8	274.4	333.0	333.0	333.0
62.5°	245.2	252.5	300.0	303.7	303.7
65°	223.2	234.2	267.1	270.8	270.8
67.5°	197.6	215.9	237.8	241.5	241.5
70°	175.6	197.6	204.9	208.6	208.6
72.5°	150.0	172.0	175.6	179.3	179.3
75°	124.4	146.4	146.4	150.0	150.0
77.5°	98.8	117.1	120.7	120.7	120.7
80°	76.8	87.8	95.1	91.5	91.5
82.5°	54.9	69.5	69.5	69.5	65.9
85°	36.6	58.5	51.2	47.6	43.9
87.5°	22.0	51.2	29.3	25.6	25.6
90°	7.3	22.0	18.3	3.7	3.7
92.5°	14.6	36.6	18.3	14.6	11.0
95°	29.3	146.4	175.6	36.6	36.6
97.5°	54.9	245.2	376.9	446.4	479.3
100°	84.2	365.9	504.9	618.4	658.6
102.5°	120.7	442.7	622.0	764.7	823.3
105°	161.0	519.6	786.7	907.4	980.6
107.5°	201.2	578.1	914.7	1050.1	1101.4
110°	248.8	625.7	995.2	1229.4	1244.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	292.7	662.3	1039.2	1317.2	1397.7
115°	333.0	702.5	1105.0	1368.5	1452.6
117.5°	380.5	731.8	1145.3	1397.7	1489.2
120°	424.4	757.4	1174.5	1434.3	1500.2
122.5°	464.7	786.7	1196.5	1463.6	1536.8
125°	501.3	812.3	1211.1	1474.6	1547.8
127.5°	537.9	834.3	1214.8	1478.2	1555.1
130°	578.1	856.2	1222.1	1474.6	1551.4
132.5°	618.4	878.2	1218.4	1463.6	1533.1
135°	647.6	892.8	1211.1	1449.0	1511.2
137.5°	676.9	903.8	1203.8	1427.0	1485.6
140°	702.5	911.1	1192.8	1401.4	1456.3
142.5°	731.8	914.7	1185.5	1375.8	1423.4
145°	757.4	914.7	1174.5	1346.5	1390.4
147.5°	783.0	911.1	1159.9	1317.2	1353.8
150°	801.3	903.8	1145.3	1288.0	1317.2
152.5°	816.0	896.5	1127.0	1255.0	1284.3
155°	834.3	892.8	1105.0	1225.8	1247.7
157.5°	848.9	892.8	1079.4	1192.8	1214.8
160°	863.5	892.8	1050.1	1159.9	1178.2
162.5°	881.8	892.8	1009.9	1112.3	1130.6
165°	900.1	896.5	980.6	1064.8	1079.4
167.5°	911.1	896.5	951.3	1006.2	1020.9
170°	918.4	903.8	925.7	966.0	969.6
172.5°	922.1	911.1	907.4	925.7	925.7
175°	922.1	911.1	907.4	907.4	900.1
177.5°	922.1	914.7	914.7	911.1	900.1
180°	914.7	914.7	914.7	914.7	914.7

(END OF REPORT)