

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: P253528

Luminaire Tested: **J3-FL-60L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253528
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-60L83050-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6142.1 lumens
Efficiency: N/A
Efficacy: 132.7 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

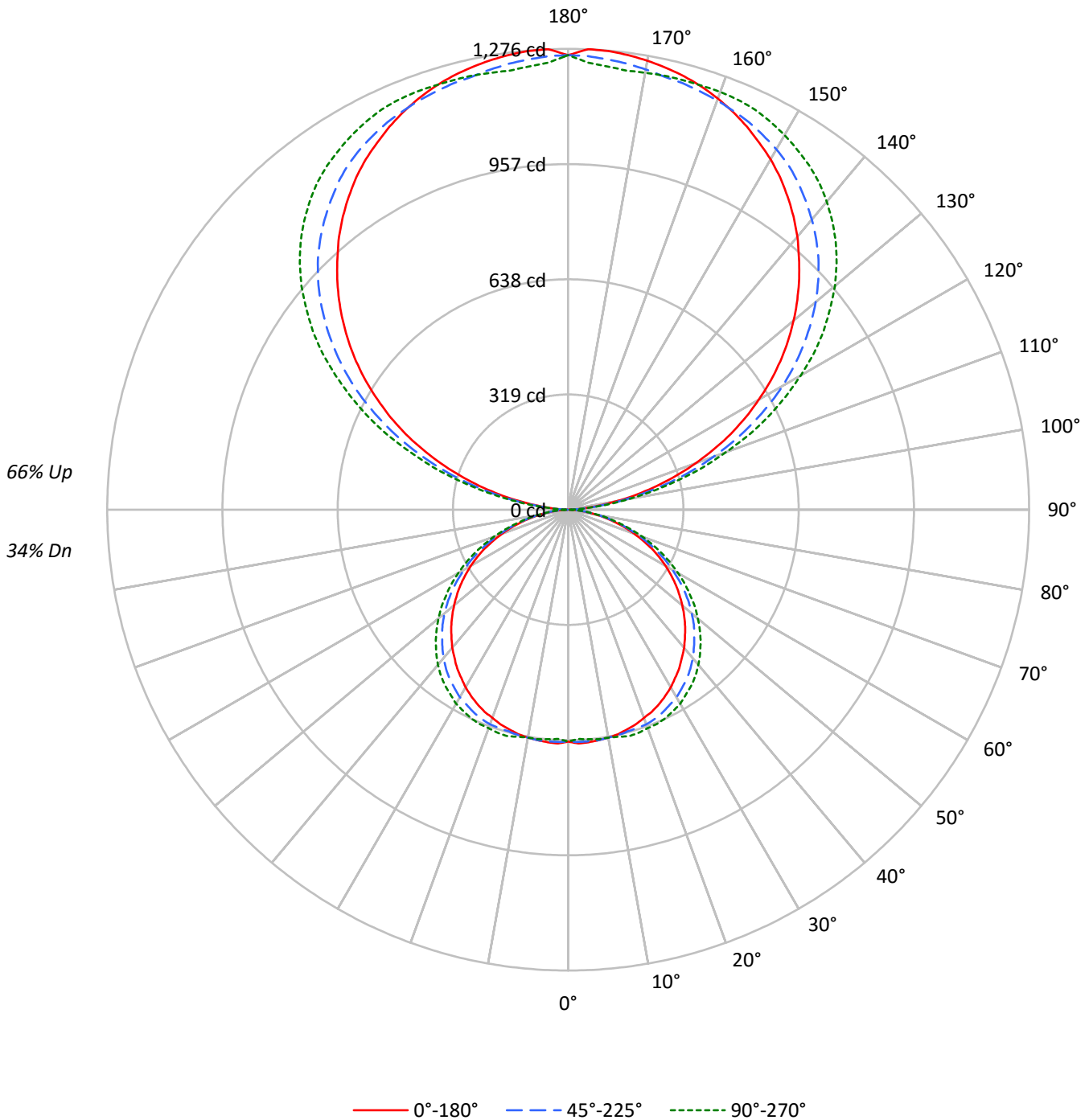
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5184	5184	5184
5°	5238	5216	5171
10°	5253	5253	5253
15°	5263	5310	5427
20°	5269	5436	5530
25°	5293	5513	5672
30°	5295	5589	5783
35°	5283	5636	5856
40°	5260	5650	5910
45°	5226	5633	5916
50°	5176	5609	5887
55°	5120	5530	5800
60°	5026	5386	5675
65°	4869	5184	5479
70°	4589	4884	5139
75°	4214	4473	4688
80°	3659	3910	4045
85°	2927	3038	3205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.0
10°-20°	180.2	2.9
20°-30°	283.8	4.6
30°-40°	354.6	5.8
40°-50°	378.0	6.2
50°-60°	348.6	5.7
60°-70°	267.7	4.4
70°-80°	151.7	2.5
80°-90°	40.0	0.7
90°-100°	64.4	1.0
100°-110°	303.0	4.9
110°-120°	549.2	8.9
120°-130°	705.5	11.5
130°-140°	750.5	12.2
140°-150°	690.6	11.2
150°-160°	546.9	8.9
160°-170°	347.2	5.7
170°-180°	119.1	1.9
0°-30°	525.3	8.6
0°-40°	879.9	14.3
0°-60°	1606.4	26.2
0°-90°	2065.8	33.6
90°-120°	916.6	14.9
90°-150°	3063.2	49.9
90°-180°	4076.0	66.4
0°-180°	6142.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	646	641	644	642	638	61
15°	630	627	635	646	649	178
25°	594	595	619	631	637	274
35°	536	546	572	586	594	335
45°	458	470	493	509	518	353
55°	364	375	393	405	412	325
65°	255	261	271	281	287	251
75°	135	138	143	149	150	144
85°	32	33	33	35	35	36
90°	2	2	2	0	0	4
95°	43	44	48	51	54	55
105°	254	265	290	307	316	269
115°	496	517	561	595	612	489
125°	717	739	795	839	863	640
135°	904	918	980	1023	1048	697
145°	1059	1054	1108	1142	1163	662
155°	1170	1154	1184	1209	1223	540
165°	1242	1223	1223	1227	1231	351
175°	1275	1260	1251	1242	1232	121
180°	1258	1258	1258	1258	1258	



TEST NUMBER: P253528

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.2	642.2	642.2	642.2	642.2
2.5°	647.9	642.2	643.7	643.7	635.4
5°	646.4	640.8	643.7	642.2	638.1
7.5°	643.7	639.5	643.7	643.7	640.8
10°	640.8	636.8	640.8	642.2	640.8
12.5°	636.8	632.7	639.5	642.2	643.7
15°	629.7	627.0	635.4	646.4	649.3
17.5°	623.1	621.6	634.1	646.4	647.9
20°	613.3	613.3	632.7	642.2	643.7
22.5°	605.2	605.2	627.0	636.8	642.2
25°	594.2	595.4	618.9	631.4	636.8
27.5°	581.7	585.9	609.1	623.1	628.5
30°	568.0	574.8	599.6	613.3	620.4
32.5°	551.5	560.8	585.9	599.6	606.4
35°	536.1	545.9	571.9	585.9	594.2
37.5°	517.0	529.2	555.5	569.2	579.0
40°	499.1	511.6	536.1	551.5	560.8
42.5°	478.2	492.0	515.5	530.7	540.3
45°	457.7	469.9	493.4	508.6	518.2
47.5°	435.6	448.1	471.6	485.3	494.7
50°	412.1	425.8	446.6	460.3	468.7
52.5°	388.5	401.0	420.4	434.4	442.5
55°	363.8	374.8	392.9	405.4	412.1
57.5°	337.5	348.6	363.8	376.3	383.1
60°	311.3	319.6	333.6	345.9	351.5
62.5°	283.9	291.0	303.2	313.0	319.6
65°	254.9	260.6	271.4	281.2	286.8
67.5°	224.8	230.2	239.7	248.1	252.2
70°	194.4	199.8	206.9	213.5	217.7
72.5°	165.2	168.2	175.0	180.7	183.4
75°	135.1	137.8	143.4	148.8	150.3
77.5°	107.6	108.8	113.2	115.9	117.2
80°	78.7	81.4	84.1	85.3	87.0
82.5°	53.7	55.2	56.4	57.8	59.1
85°	31.6	32.8	32.8	34.6	34.6
87.5°	13.7	15.2	15.2	15.2	15.2
90°	1.5	1.5	1.5	0.0	0.0
92.5°	13.7	13.7	15.2	16.4	17.9
95°	42.7	44.1	48.3	51.0	53.7
97.5°	85.3	88.2	96.3	103.4	106.1
100°	137.8	143.4	155.9	165.2	169.6
102.5°	194.4	202.5	220.6	234.3	241.2
105°	253.7	264.7	289.5	307.4	315.7
107.5°	314.3	328.2	359.8	380.4	391.5
110°	374.8	392.9	427.3	454.7	463.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.6	454.7	496.1	526.5	541.7
115°	496.1	517.0	560.8	595.4	612.1
117.5°	554.2	576.0	624.3	663.1	678.0
120°	609.1	632.7	685.1	725.1	743.0
122.5°	664.3	686.6	741.5	784.2	806.5
125°	716.7	738.8	795.4	839.3	862.8
127.5°	766.5	786.9	846.4	891.8	913.8
130°	814.6	833.9	894.5	938.8	963.6
132.5°	860.1	878.0	938.8	981.5	1007.7
135°	904.3	918.0	980.0	1022.7	1047.7
137.5°	945.5	955.3	1016.0	1058.7	1082.2
140°	986.9	989.8	1048.9	1088.9	1113.6
142.5°	1024.1	1022.7	1079.3	1117.8	1141.3
145°	1058.7	1054.5	1108.2	1142.5	1163.4
147.5°	1091.5	1082.2	1133.0	1162.1	1181.3
150°	1120.5	1108.2	1152.3	1181.3	1197.7
152.5°	1145.2	1131.5	1168.8	1195.0	1211.4
155°	1170.2	1153.8	1184.0	1208.7	1222.7
157.5°	1192.3	1171.5	1195.0	1217.1	1228.3
160°	1211.4	1191.1	1206.0	1222.7	1231.0
162.5°	1228.3	1207.5	1214.4	1223.9	1231.0
165°	1242.1	1222.7	1222.7	1226.6	1231.0
167.5°	1252.8	1236.4	1228.3	1229.6	1231.0
170°	1262.6	1246.0	1237.6	1229.6	1228.3
172.5°	1269.5	1252.8	1246.0	1234.9	1226.6
175°	1274.9	1259.9	1251.4	1242.1	1232.2
177.5°	1276.4	1263.9	1257.0	1247.4	1239.1
180°	1258.5	1258.5	1258.5	1258.5	1258.5

(END OF REPORT)