

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: P253510

Luminaire Tested: **J3-FL-60L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253510
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.1 lumens
Efficiency: N/A
Efficacy: 131.2 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

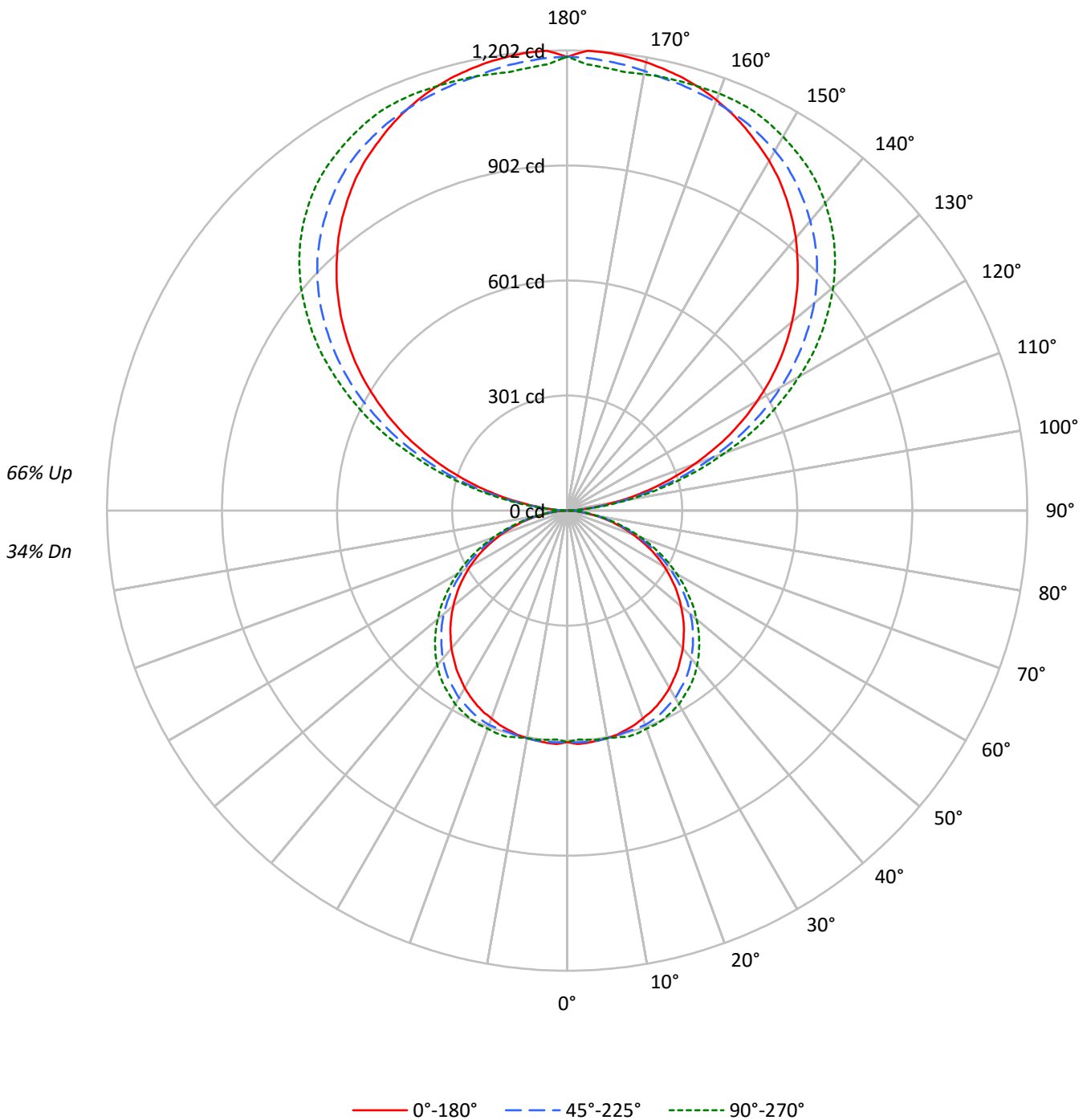
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4883	4883	4883
5°	4934	4913	4870
10°	4947	4947	4947
15°	4957	5001	5112
20°	4962	5119	5209
25°	4985	5193	5343
30°	4986	5264	5447
35°	4976	5308	5515
40°	4954	5321	5566
45°	4921	5307	5573
50°	4874	5284	5544
55°	4822	5209	5462
60°	4734	5073	5346
65°	4586	4883	5160
70°	4322	4600	4839
75°	3968	4214	4414
80°	3445	3682	3812
85°	2760	2862	3020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.0
10°-20°	169.7	2.9
20°-30°	267.3	4.6
30°-40°	334.0	5.8
40°-50°	356.0	6.2
50°-60°	328.3	5.7
60°-70°	252.1	4.4
70°-80°	142.9	2.5
80°-90°	37.6	0.7
90°-100°	60.7	1.0
100°-110°	285.4	4.9
110°-120°	517.3	8.9
120°-130°	664.5	11.5
130°-140°	706.9	12.2
140°-150°	650.4	11.2
150°-160°	515.1	8.9
160°-170°	327.0	5.7
170°-180°	112.2	1.9
0°-30°	494.7	8.6
0°-40°	828.7	14.3
0°-60°	1513.0	26.2
0°-90°	1945.7	33.6
90°-120°	863.4	14.9
90°-150°	2885.2	49.9
90°-180°	3839.0	66.4
0°-180°	5785.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	609	604	606	605	601	58
15°	593	591	598	609	612	168
25°	560	561	583	595	600	258
35°	505	514	539	552	560	315
45°	431	443	465	479	488	332
55°	343	353	370	382	388	306
65°	240	245	256	265	270	237
75°	127	130	135	140	142	135
85°	30	31	31	33	33	34
90°	1	1	1	0	0	4
95°	40	42	46	48	51	52
105°	239	249	273	290	297	253
115°	467	487	528	561	576	461
125°	675	696	749	790	813	602
135°	852	865	923	963	987	657
145°	997	993	1044	1076	1096	624
155°	1102	1087	1115	1138	1152	508
165°	1170	1152	1152	1155	1160	330
175°	1201	1187	1179	1170	1161	114
180°	1185	1185	1185	1185	1185	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.9	604.9	604.9	604.9	604.9
2.5°	610.2	604.9	606.3	606.3	598.4
5°	608.8	603.5	606.3	604.9	601.0
7.5°	606.3	602.4	606.3	606.3	603.5
10°	603.5	599.8	603.5	604.9	603.5
12.5°	599.8	595.9	602.4	604.9	606.3
15°	593.1	590.6	598.4	608.8	611.6
17.5°	586.9	585.5	597.3	608.8	610.2
20°	577.6	577.6	595.9	604.9	606.3
22.5°	570.0	570.0	590.6	599.8	604.9
25°	559.6	560.8	583.0	594.7	599.8
27.5°	547.9	551.8	573.7	586.9	592.0
30°	534.9	541.4	564.7	577.6	584.3
32.5°	519.5	528.2	551.8	564.7	571.2
35°	504.9	514.2	538.6	551.8	559.6
37.5°	486.9	498.5	523.2	536.1	545.3
40°	470.1	481.8	504.9	519.5	528.2
42.5°	450.4	463.4	485.5	499.8	508.8
45°	431.0	442.6	464.8	479.1	488.1
47.5°	410.3	422.0	444.2	457.1	465.9
50°	388.1	401.0	420.7	433.6	441.4
52.5°	365.9	377.7	396.0	409.1	416.7
55°	342.6	353.0	370.1	381.9	388.1
57.5°	317.9	328.3	342.6	354.4	360.9
60°	293.2	301.1	314.2	325.8	331.1
62.5°	267.4	274.0	285.6	294.8	301.1
65°	240.1	245.4	255.6	264.8	270.1
67.5°	211.7	216.8	225.8	233.6	237.6
70°	183.1	188.2	194.9	201.1	205.0
72.5°	155.6	158.4	164.8	170.2	172.7
75°	127.2	129.8	135.1	140.1	141.5
77.5°	101.4	102.5	106.7	109.2	110.4
80°	74.1	76.7	79.2	80.3	82.0
82.5°	50.6	51.9	53.1	54.5	55.6
85°	29.8	30.9	30.9	32.6	32.6
87.5°	12.9	14.3	14.3	14.3	14.3
90°	1.4	1.4	1.4	0.0	0.0
92.5°	12.9	12.9	14.3	15.5	16.9
95°	40.2	41.6	45.5	48.0	50.6
97.5°	80.3	83.1	90.7	97.4	100.0
100°	129.8	135.1	146.8	155.6	159.8
102.5°	183.1	190.7	207.8	220.7	227.2
105°	239.0	249.3	272.7	289.5	297.4
107.5°	296.0	309.1	338.9	358.3	368.7
110°	353.0	370.1	402.4	428.3	436.1



TEST NUMBER: P253510

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	410.3	428.3	467.3	495.9	510.2
115°	467.3	486.9	528.2	560.8	576.5
117.5°	522.0	542.6	588.0	624.5	638.6
120°	573.7	595.9	645.3	682.9	699.8
122.5°	625.7	646.7	698.4	738.6	759.6
125°	675.1	695.9	749.2	790.5	812.7
127.5°	721.9	741.1	797.2	839.9	860.7
130°	767.2	785.4	842.5	884.3	907.6
132.5°	810.1	827.0	884.3	924.4	949.1
135°	851.7	864.6	923.0	963.2	986.8
137.5°	890.5	899.7	957.0	997.1	1019.3
140°	929.5	932.3	987.9	1025.5	1048.9
142.5°	964.6	963.2	1016.5	1052.8	1075.0
145°	997.1	993.2	1043.8	1076.1	1095.7
147.5°	1028.1	1019.3	1067.1	1094.6	1112.6
150°	1055.3	1043.8	1085.3	1112.6	1128.1
152.5°	1078.6	1065.7	1100.8	1125.5	1141.0
155°	1102.2	1086.7	1115.1	1138.4	1151.6
157.5°	1123.0	1103.4	1125.5	1146.3	1156.9
160°	1141.0	1121.8	1135.9	1151.6	1159.5
162.5°	1156.9	1137.3	1143.8	1152.8	1159.5
165°	1169.8	1151.6	1151.6	1155.3	1159.5
167.5°	1180.0	1164.5	1156.9	1158.1	1159.5
170°	1189.2	1173.5	1165.7	1158.1	1156.9
172.5°	1195.7	1180.0	1173.5	1163.1	1155.3
175°	1200.8	1186.7	1178.6	1169.8	1160.6
177.5°	1202.2	1190.4	1183.9	1174.9	1167.1
180°	1185.3	1185.3	1185.3	1185.3	1185.3

(END OF REPORT)