

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: P253516

Luminaire Tested: **J3-FL-60L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253516
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6089.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

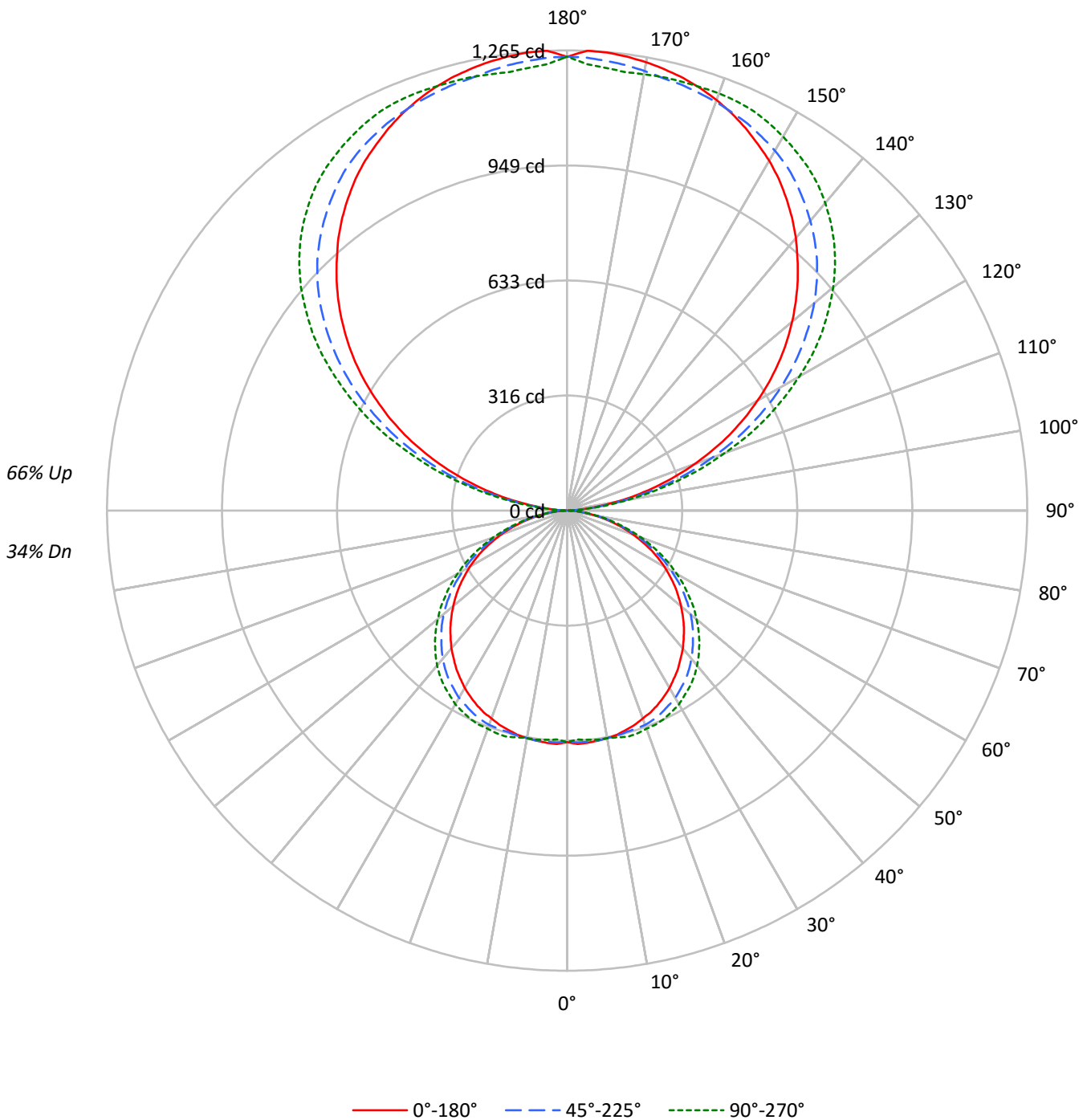
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5140	5140	5140
5°	5193	5171	5126
10°	5207	5207	5207
15°	5218	5265	5380
20°	5223	5388	5482
25°	5247	5466	5623
30°	5248	5541	5733
35°	5237	5587	5805
40°	5214	5600	5859
45°	5180	5585	5865
50°	5130	5561	5835
55°	5075	5482	5750
60°	4983	5339	5627
65°	4827	5138	5431
70°	4548	4841	5094
75°	4177	4435	4648
80°	3626	3873	4012
85°	2899	3020	3177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.0
10°-20°	178.6	2.9
20°-30°	281.4	4.6
30°-40°	351.5	5.8
40°-50°	374.7	6.2
50°-60°	345.5	5.7
60°-70°	265.4	4.4
70°-80°	150.4	2.5
80°-90°	39.6	0.7
90°-100°	63.8	1.0
100°-110°	300.4	4.9
110°-120°	544.5	8.9
120°-130°	699.4	11.5
130°-140°	744.0	12.2
140°-150°	684.6	11.2
150°-160°	542.1	8.9
160°-170°	344.2	5.7
170°-180°	118.1	1.9
0°-30°	520.7	8.6
0°-40°	872.3	14.3
0°-60°	1592.5	26.2
0°-90°	2047.9	33.6
90°-120°	908.7	14.9
90°-150°	3036.7	49.9
90°-180°	4041.0	66.4
0°-180°	6089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	641	635	638	637	632	61
15°	624	622	630	641	644	176
25°	589	590	614	626	631	271
35°	531	541	567	581	589	332
45°	454	466	489	504	514	350
55°	361	372	390	402	408	322
65°	253	258	269	279	284	249
75°	134	137	142	148	149	142
85°	31	33	33	34	34	35
90°	2	2	2	0	0	4
95°	42	44	48	50	53	55
105°	252	262	287	305	313	266
115°	492	512	556	590	607	485
125°	710	732	788	832	855	634
135°	896	910	972	1014	1039	691
145°	1050	1045	1099	1133	1153	657
155°	1160	1144	1174	1198	1212	535
165°	1231	1212	1212	1216	1220	348
175°	1264	1249	1240	1231	1222	120
180°	1248	1248	1248	1248	1248	



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CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.7	636.7	636.7	636.7	636.7
2.5°	642.3	636.7	638.1	638.1	629.9
5°	640.8	635.2	638.1	636.7	632.5
7.5°	638.1	634.0	638.1	638.1	635.2
10°	635.2	631.3	635.2	636.7	635.2
12.5°	631.3	627.2	634.0	636.7	638.1
15°	624.3	621.6	629.9	640.8	643.7
17.5°	617.7	616.3	628.6	640.8	642.3
20°	608.0	608.0	627.2	636.7	638.1
22.5°	600.0	600.0	621.6	631.3	636.7
25°	589.0	590.3	613.6	626.0	631.3
27.5°	576.6	580.8	603.9	617.7	623.1
30°	563.0	569.8	594.4	608.0	615.0
32.5°	546.8	556.0	580.8	594.4	601.2
35°	531.4	541.2	566.9	580.8	589.0
37.5°	512.5	524.6	550.6	564.3	574.0
40°	494.8	507.1	531.4	546.8	556.0
42.5°	474.1	487.7	511.0	526.1	535.6
45°	453.7	465.8	489.2	504.2	513.7
47.5°	431.8	444.2	467.5	481.1	490.4
50°	408.5	422.1	442.8	456.4	464.6
52.5°	385.2	397.6	416.7	430.6	438.6
55°	360.6	371.6	389.5	401.9	408.5
57.5°	334.6	345.5	360.6	373.0	379.8
60°	308.6	316.9	330.7	342.9	348.5
62.5°	281.4	288.4	300.6	310.3	316.9
65°	252.7	258.3	269.0	278.7	284.3
67.5°	222.8	228.2	237.7	245.9	250.0
70°	192.7	198.0	205.1	211.7	215.8
72.5°	163.8	166.7	173.5	179.1	181.8
75°	133.9	136.6	142.2	147.5	149.0
77.5°	106.7	107.9	112.3	114.9	116.2
80°	78.0	80.7	83.3	84.6	86.3
82.5°	53.2	54.7	55.9	57.3	58.6
85°	31.3	32.6	32.6	34.3	34.3
87.5°	13.6	15.1	15.1	15.1	15.1
90°	1.5	1.5	1.5	0.0	0.0
92.5°	13.6	13.6	15.1	16.3	17.7
95°	42.3	43.7	47.9	50.5	53.2
97.5°	84.6	87.5	95.5	102.5	105.2
100°	136.6	142.2	154.5	163.8	168.2
102.5°	192.7	200.7	218.7	232.3	239.1
105°	251.5	262.4	287.0	304.7	313.0
107.5°	311.5	325.4	356.7	377.1	388.1
110°	371.6	389.5	423.6	450.8	459.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.8	450.8	491.8	522.0	537.0
115°	491.8	512.5	556.0	590.3	606.8
117.5°	549.4	571.1	618.9	657.3	672.1
120°	603.9	627.2	679.2	718.8	736.5
122.5°	658.5	680.6	735.1	777.4	799.5
125°	710.5	732.4	788.5	832.0	855.4
127.5°	759.9	780.0	839.1	884.0	905.9
130°	807.5	826.7	886.7	930.7	955.2
132.5°	852.7	870.4	930.7	973.0	999.0
135°	896.4	910.0	971.5	1013.8	1038.6
137.5°	937.3	947.0	1007.2	1049.5	1072.9
140°	978.3	981.2	1039.8	1079.4	1104.0
142.5°	1015.3	1013.8	1069.9	1108.1	1131.4
145°	1049.5	1045.4	1098.6	1132.6	1153.3
147.5°	1082.1	1072.9	1123.2	1152.1	1171.0
150°	1110.8	1098.6	1142.4	1171.0	1187.3
152.5°	1135.3	1121.7	1158.6	1184.6	1200.9
155°	1160.1	1143.8	1173.7	1198.2	1212.1
157.5°	1182.0	1161.3	1184.6	1206.5	1217.7
160°	1200.9	1180.7	1195.6	1212.1	1220.4
162.5°	1217.7	1197.0	1203.8	1213.3	1220.4
165°	1231.3	1212.1	1212.1	1216.0	1220.4
167.5°	1242.0	1225.7	1217.7	1218.9	1220.4
170°	1251.7	1235.2	1226.9	1218.9	1217.7
172.5°	1258.5	1242.0	1235.2	1224.2	1216.0
175°	1263.9	1249.0	1240.5	1231.3	1221.6
177.5°	1265.3	1252.9	1246.1	1236.6	1228.4
180°	1247.6	1247.6	1247.6	1247.6	1247.6

(END OF REPORT)