

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: P253562

Luminaire Tested: **J3-UL-20L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-20L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2487.1 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

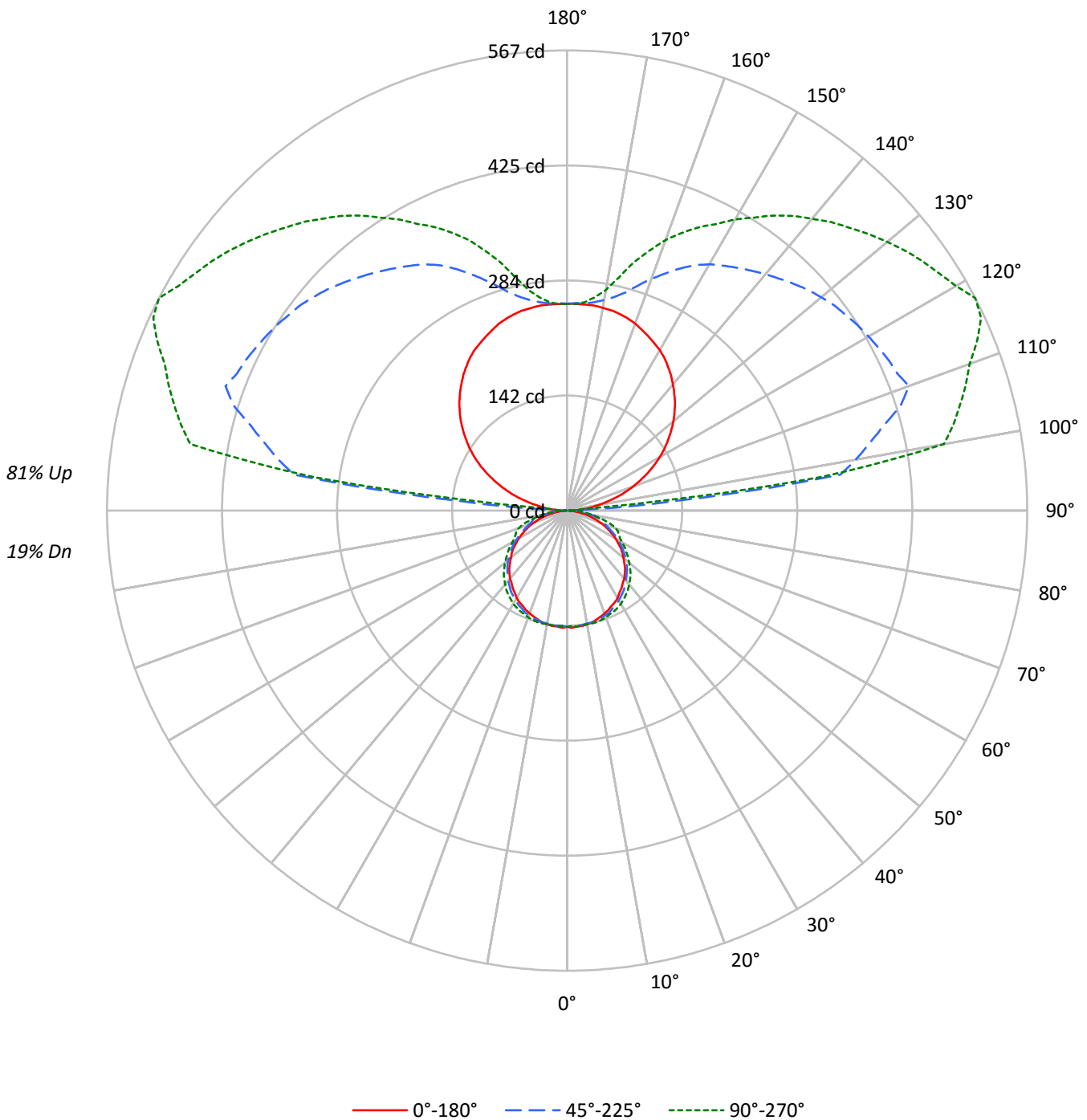
Input Watts (W): 17
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19				
1	91	86	82	79	80	76	73	70	57	55	53	40	39	37	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10				
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8				
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7				
7	53	41	33	28	46	36	30	25	28	23	20	19	16	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	19	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1157	1157	1157
5°	1161	1153	1161
10°	1167	1157	1167
15°	1163	1171	1189
20°	1158	1177	1204
25°	1154	1182	1220
30°	1158	1188	1237
35°	1151	1192	1245
40°	1153	1186	1253
45°	1152	1187	1260
50°	1133	1187	1253
55°	1136	1181	1255
60°	1114	1166	1251
65°	1075	1156	1339
70°	1027	1178	1504
75°	961	1357	1522
80°	790	1334	1483
85°	685	1473	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.5
10°-20°	39.7	1.6
20°-30°	61.5	2.5
30°-40°	75.9	3.1
40°-50°	80.9	3.3
50°-60°	75.5	3.0
60°-70°	61.8	2.5
70°-80°	42.5	1.7
80°-90°	16.5	0.7
90°-100°	148.1	6.0
100°-110°	375.0	15.1
110°-120°	388.7	15.6
120°-130°	346.6	13.9
130°-140°	288.3	11.6
140°-150°	219.5	8.8
150°-160°	147.8	5.9
160°-170°	80.3	3.2
170°-180°	24.7	1.0
0°-30°	114.8	4.6
0°-40°	190.7	7.7
0°-60°	347.1	14.0
0°-90°	468.0	18.8
90°-120°	911.8	36.7
90°-150°	1766.3	71.0
90°-180°	2019.0	81.2
0°-180°	2487.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	143	143	143	143	143	
5°	143	143	142	143	143	14
15°	139	140	140	141	142	39
25°	130	131	133	136	137	60
35°	117	118	121	125	126	73
45°	101	102	104	108	110	78
55°	81	82	84	87	89	72
65°	56	58	60	67	70	56
75°	31	33	44	48	49	32
85°	7	13	16	18	18	8
90°	1	1	1	1	1	2
95°	21	164	130	20	20	21
105°	63	259	403	477	501	66
115°	109	268	437	544	563	108
125°	152	274	419	509	535	136
135°	188	282	395	472	493	145
145°	217	277	365	425	444	136
155°	237	263	329	372	385	109
165°	251	257	278	306	316	71
175°	255	255	256	258	258	24
180°	255	255	255	255	255	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	143.3	143.3	143.3	143.3	143.3
2.5°	144.4	144.4	142.3	143.3	142.3
5°	143.3	143.3	142.3	143.3	143.3
7.5°	143.3	143.3	142.3	143.3	142.3
10°	142.3	142.3	141.2	142.3	142.3
12.5°	141.2	141.2	141.2	142.3	142.3
15°	139.1	140.1	140.1	141.2	142.3
17.5°	137.0	138.0	139.1	140.1	141.2
20°	134.8	135.9	137.0	139.1	140.1
22.5°	132.7	133.8	135.9	138.0	138.0
25°	129.5	130.6	132.7	135.9	137.0
27.5°	127.4	128.5	130.6	133.8	134.8
30°	124.2	125.3	127.4	131.7	132.7
32.5°	120.0	122.1	124.2	128.5	129.5
35°	116.8	117.8	121.0	125.3	126.3
37.5°	112.5	113.6	116.8	121.0	123.2
40°	109.4	110.4	112.5	116.8	118.9
42.5°	105.1	106.2	108.3	112.5	114.7
45°	100.9	101.9	104.0	108.3	110.4
47.5°	95.6	97.7	99.8	103.0	105.1
50°	90.2	92.4	94.5	98.7	99.8
52.5°	86.0	87.1	89.2	92.4	94.5
55°	80.7	81.8	83.9	87.1	89.2
57.5°	74.3	76.4	78.6	81.8	83.9
60°	69.0	71.1	72.2	76.4	77.5
62.5°	62.6	64.8	66.9	70.1	73.3
65°	56.3	58.4	60.5	66.9	70.1
67.5°	51.0	52.0	54.1	62.6	67.9
70°	43.5	45.7	49.9	60.5	63.7
72.5°	37.2	39.3	45.7	55.2	57.3
75°	30.8	32.9	43.5	47.8	48.8
77.5°	24.4	26.5	37.2	39.3	39.3
80°	17.0	22.3	28.7	31.9	31.9
82.5°	11.7	19.1	22.3	24.4	24.4
85°	7.4	12.7	15.9	18.0	18.0
87.5°	4.2	8.5	12.7	13.8	13.8
90°	1.1	1.1	1.1	1.1	1.1
92.5°	11.7	34.0	9.6	9.6	9.6
95°	21.2	163.5	129.5	20.2	20.2
97.5°	29.7	198.5	339.7	420.4	314.3
100°	39.3	235.7	361.0	445.9	471.4
102.5°	49.9	252.7	381.1	459.7	487.3
105°	62.6	259.1	403.4	476.7	501.1
107.5°	74.3	262.2	431.0	491.6	514.9
110°	86.0	264.4	448.0	508.6	527.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.7	265.4	440.6	530.8	546.8
115°	109.4	267.5	437.4	543.6	562.7
117.5°	121.0	268.6	433.2	530.8	566.9
120°	131.7	270.7	428.9	523.4	553.1
122.5°	142.3	271.8	424.7	516.0	543.6
125°	151.8	273.9	419.4	508.6	535.1
127.5°	161.4	276.0	415.1	500.1	525.5
130°	170.9	279.2	408.8	491.6	514.9
132.5°	179.4	281.3	402.4	482.0	504.3
135°	187.9	282.4	395.0	472.5	492.6
137.5°	195.4	282.4	387.5	461.8	482.0
140°	202.8	281.3	380.1	450.2	469.3
142.5°	210.2	280.3	372.7	437.4	457.6
145°	216.6	277.1	365.2	424.7	443.8
147.5°	223.0	273.9	357.8	410.9	427.9
150°	228.3	269.7	350.4	396.0	414.1
152.5°	232.5	266.5	340.8	383.3	398.1
155°	236.8	263.3	329.1	371.6	385.4
157.5°	241.0	261.2	316.4	357.8	370.5
160°	245.3	260.1	303.6	341.9	354.6
162.5°	248.4	258.0	290.9	323.8	335.5
165°	250.6	256.9	278.2	305.8	316.4
167.5°	252.7	255.9	269.7	285.6	294.1
170°	253.7	254.8	263.3	271.8	276.0
172.5°	254.8	254.8	259.1	263.3	265.4
175°	254.8	254.8	255.9	258.0	258.0
177.5°	254.8	255.9	255.9	255.9	254.8
180°	254.8	254.8	254.8	254.8	254.8

(END OF REPORT)