

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: P275171

Luminaire Tested: **J3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275171
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-20L82765-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2380.0 lumens
Efficiency: N/A
Efficacy: 144.2 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

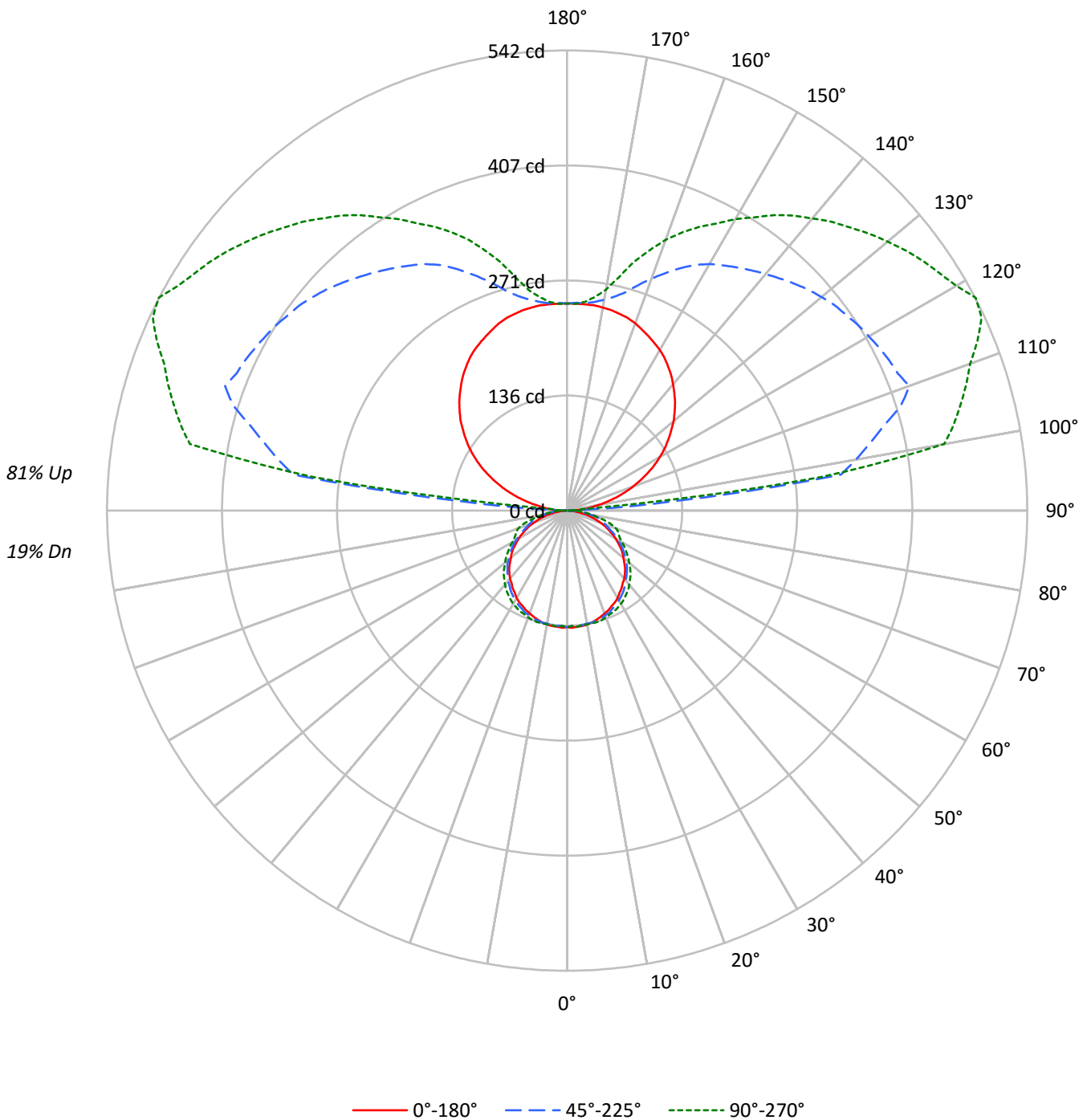
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275171

CATALOG NUMBER: J3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P275171

CATALOG NUMBER: J3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

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°	1108	1108	1108
5°	1112	1103	1112
10°	1116	1107	1116
15°	1112	1121	1137
20°	1108	1126	1152
25°	1105	1131	1168
30°	1108	1136	1184
35°	1102	1141	1191
40°	1102	1135	1199
45°	1102	1137	1207
50°	1085	1135	1199
55°	1087	1130	1201
60°	1066	1116	1198
65°	1028	1106	1282
70°	984	1128	1440
75°	920	1301	1457
80°	758	1274	1418
85°	658	1408	1602



TEST NUMBER: P275171

CATALOG NUMBER: J3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.5
10°-20°	38.0	1.6
20°-30°	58.9	2.5
30°-40°	72.6	3.1
40°-50°	77.4	3.3
50°-60°	72.2	3.0
60°-70°	59.1	2.5
70°-80°	40.7	1.7
80°-90°	15.8	0.7
90°-100°	141.7	6.0
100°-110°	358.9	15.1
110°-120°	372.0	15.6
120°-130°	331.7	13.9
130°-140°	275.9	11.6
140°-150°	210.1	8.8
150°-160°	141.4	5.9
160°-170°	76.9	3.2
170°-180°	23.7	1.0
0°-30°	109.9	4.6
0°-40°	182.5	7.7
0°-60°	332.1	14.0
0°-90°	447.8	18.8
90°-120°	872.6	36.7
90°-150°	1690.3	71.0
90°-180°	1932.0	81.2
0°-180°	2380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	137	137	137	137	137	
5°	137	137	136	137	137	13
15°	133	134	134	135	136	38
25°	124	125	127	130	131	57
35°	112	113	116	120	121	70
45°	96	98	100	104	106	74
55°	77	78	80	83	85	69
65°	54	56	58	64	67	54
75°	30	32	42	46	47	31
85°	7	12	15	17	17	8
90°	1	1	1	1	1	2
95°	20	156	124	19	19	20
105°	60	248	386	456	480	63
115°	105	256	419	520	538	103
125°	145	262	401	487	512	130
135°	180	270	378	452	471	139
145°	207	265	350	406	425	130
155°	227	252	315	356	369	105
165°	240	246	266	293	303	68
175°	244	244	245	247	247	23
180°	244	244	244	244	244	



TEST NUMBER: P275171

CATALOG NUMBER: J3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	137.2	137.2	137.2	137.2	137.2
2.5°	138.2	138.2	136.1	137.2	136.1
5°	137.2	137.2	136.1	137.2	137.2
7.5°	137.2	137.2	136.1	137.2	136.1
10°	136.1	136.1	135.1	136.1	136.1
12.5°	135.1	135.1	135.1	136.1	136.1
15°	133.1	134.1	134.1	135.1	136.1
17.5°	131.1	132.1	133.1	134.1	135.1
20°	129.0	130.0	131.1	133.1	134.1
22.5°	127.0	128.0	130.0	132.1	132.1
25°	124.0	125.0	127.0	130.0	131.1
27.5°	121.9	122.9	125.0	128.0	129.0
30°	118.9	119.9	121.9	126.0	127.0
32.5°	114.8	116.8	118.9	122.9	124.0
35°	111.8	112.8	115.8	119.9	120.9
37.5°	107.7	108.7	111.8	115.8	117.9
40°	104.6	105.7	107.7	111.8	113.8
42.5°	100.6	101.6	103.6	107.7	109.7
45°	96.5	97.5	99.6	103.6	105.7
47.5°	91.4	93.5	95.5	98.6	100.6
50°	86.4	88.4	90.4	94.5	95.5
52.5°	82.3	83.3	85.3	88.4	90.4
55°	77.2	78.2	80.3	83.3	85.3
57.5°	71.1	73.2	75.2	78.2	80.3
60°	66.0	68.1	69.1	73.2	74.2
62.5°	59.9	62.0	64.0	67.1	70.1
65°	53.8	55.9	57.9	64.0	67.1
67.5°	48.8	49.8	51.8	59.9	65.0
70°	41.7	43.7	47.8	57.9	61.0
72.5°	35.6	37.6	43.7	52.8	54.9
75°	29.5	31.5	41.7	45.7	46.7
77.5°	23.4	25.4	35.6	37.6	37.6
80°	16.3	21.3	27.4	30.5	30.5
82.5°	11.2	18.3	21.3	23.4	23.4
85°	7.1	12.2	15.2	17.3	17.3
87.5°	4.1	8.1	12.2	13.2	13.2
90°	1.0	1.0	1.0	1.0	1.0
92.5°	11.2	32.5	9.1	9.1	9.1
95°	20.3	156.5	124.0	19.3	19.3
97.5°	28.4	190.0	325.1	402.3	300.7
100°	37.6	225.6	345.4	426.7	451.1
102.5°	47.8	241.8	364.7	439.9	466.3
105°	59.9	247.9	386.1	456.2	479.6
107.5°	71.1	251.0	412.5	470.4	492.8
110°	82.3	253.0	428.8	486.7	505.0



TEST NUMBER: P275171

CATALOG NUMBER: J3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.5	254.0	421.6	508.0	523.2
115°	104.6	256.0	418.6	520.2	538.5
117.5°	115.8	257.0	414.5	508.0	542.5
120°	126.0	259.1	410.5	500.9	529.3
122.5°	136.1	260.1	406.4	493.8	520.2
125°	145.3	262.1	401.3	486.7	512.1
127.5°	154.4	264.2	397.3	478.5	502.9
130°	163.6	267.2	391.2	470.4	492.8
132.5°	171.7	269.2	385.1	461.3	482.6
135°	179.8	270.3	378.0	452.1	471.4
137.5°	186.9	270.3	370.8	442.0	461.3
140°	194.1	269.2	363.7	430.8	449.1
142.5°	201.2	268.2	356.6	418.6	437.9
145°	207.3	265.2	349.5	406.4	424.7
147.5°	213.4	262.1	342.4	393.2	409.4
150°	218.4	258.1	335.3	379.0	396.2
152.5°	222.5	255.0	326.1	366.8	381.0
155°	226.6	252.0	315.0	355.6	368.8
157.5°	230.6	249.9	302.8	342.4	354.6
160°	234.7	248.9	290.6	327.2	339.3
162.5°	237.7	246.9	278.4	309.9	321.1
165°	239.8	245.9	266.2	292.6	302.8
167.5°	241.8	244.9	258.1	273.3	281.4
170°	242.8	243.8	252.0	260.1	264.2
172.5°	243.8	243.8	247.9	252.0	254.0
175°	243.8	243.8	244.9	246.9	246.9
177.5°	243.8	244.9	244.9	244.9	243.8
180°	243.8	243.8	243.8	243.8	243.8

(END OF REPORT)