

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: P253587

Luminaire Tested: **J3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-50L83050-1D-UNV-W2A-W-4 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.5 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

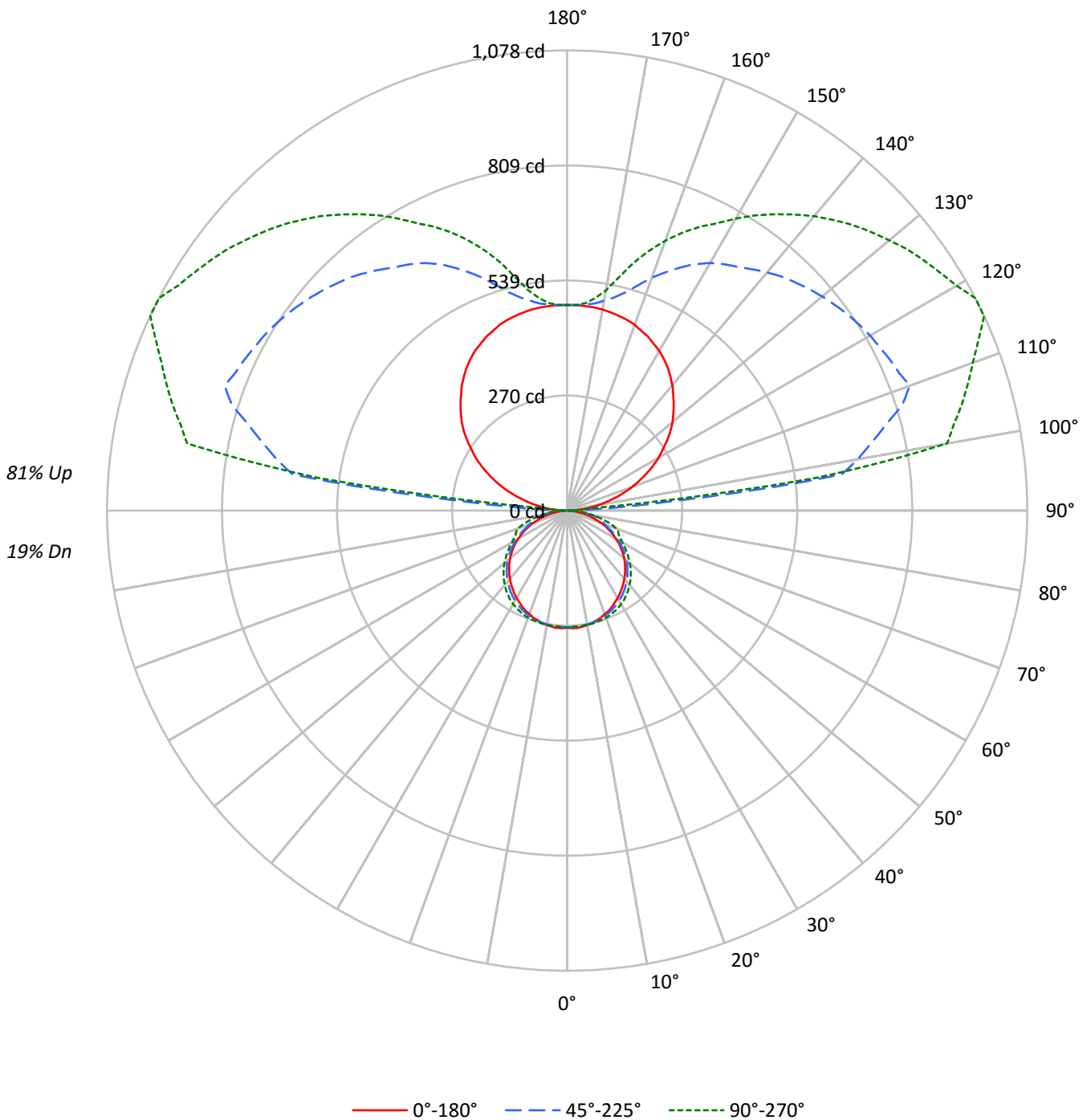
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	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	20	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	20	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°	2214	2214	2214
5°	2236	2212	2207
10°	2233	2218	2228
15°	2221	2232	2257
20°	2217	2248	2294
25°	2214	2263	2326
30°	2207	2274	2357
35°	2199	2281	2380
40°	2195	2283	2395
45°	2195	2283	2406
50°	2192	2281	2408
55°	2172	2272	2405
60°	2136	2233	2404
65°	2075	2210	2539
70°	1990	2214	2884
75°	1831	2536	2907
80°	1599	2566	2841
85°	1260	2918	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.6
10°-20°	75.8	1.6
20°-30°	117.5	2.5
30°-40°	145.4	3.1
40°-50°	155.1	3.3
50°-60°	144.4	3.0
60°-70°	117.7	2.5
70°-80°	81.0	1.7
80°-90°	31.8	0.7
90°-100°	279.5	5.9
100°-110°	715.4	15.1
110°-120°	740.4	15.6
120°-130°	659.6	13.9
130°-140°	549.3	11.6
140°-150°	418.2	8.8
150°-160°	281.3	5.9
160°-170°	152.4	3.2
170°-180°	46.7	1.0
0°-30°	219.4	4.6
0°-40°	364.8	7.7
0°-60°	664.3	14.0
0°-90°	894.8	18.9
90°-120°	1735.3	36.6
90°-150°	3362.4	71.0
90°-180°	3843.0	81.1
0°-180°	4737.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	276	275	273	274	272	26
15°	266	268	267	270	270	75
25°	249	251	254	259	261	115
35°	223	227	231	239	242	140
45°	192	195	200	207	211	148
55°	154	157	161	167	171	138
65°	109	111	116	126	133	107
75°	59	62	81	91	93	62
85°	14	25	32	35	35	16
90°	2	3	3	2	2	4
95°	40	311	229	39	39	39
105°	118	494	771	907	957	124
115°	205	510	835	1032	1078	203
125°	285	522	802	965	1021	255
135°	353	536	756	898	946	273
145°	410	526	697	809	847	256
155°	449	500	628	708	733	207
165°	472	485	529	581	600	133
175°	481	482	485	487	488	46
180°	481	481	481	481	481	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	274.2	274.2	274.2	274.2	274.2
2.5°	275.9	275.3	273.0	273.6	272.4
5°	275.9	274.7	273.0	273.6	272.4
7.5°	274.2	273.6	271.8	273.0	272.4
10°	272.4	271.8	270.6	272.4	271.8
12.5°	270.0	270.0	269.4	271.2	271.2
15°	265.8	267.6	267.0	270.0	270.0
17.5°	262.9	264.1	264.7	268.2	268.8
20°	258.1	260.5	261.7	265.3	267.0
22.5°	254.0	256.3	258.1	262.9	264.7
25°	248.6	251.0	254.0	259.3	261.1
27.5°	242.1	246.3	249.2	255.8	257.5
30°	236.8	239.7	243.9	250.4	252.8
32.5°	230.2	233.8	238.0	245.1	248.0
35°	223.1	226.7	231.4	239.1	241.5
37.5°	216.0	219.0	224.3	232.0	235.0
40°	208.3	211.3	216.6	224.9	227.3
42.5°	200.6	203.5	208.9	216.6	219.6
45°	192.3	195.2	200.0	207.1	210.7
47.5°	183.4	186.3	191.1	198.2	201.8
50°	174.5	176.8	181.6	188.1	191.7
52.5°	164.4	166.7	171.5	177.4	181.0
55°	154.3	156.7	161.4	166.7	170.9
57.5°	143.6	146.0	149.5	155.5	160.2
60°	132.3	134.7	138.3	144.8	148.9
62.5°	120.5	122.8	127.0	134.1	140.6
65°	108.6	111.0	115.7	126.4	132.9
67.5°	96.7	99.1	103.3	118.7	129.4
70°	84.3	86.6	93.8	115.1	122.2
72.5°	71.2	74.8	86.6	106.2	109.2
75°	58.7	62.3	81.3	90.8	93.2
77.5°	45.7	51.0	70.6	74.8	76.0
80°	34.4	42.1	55.2	60.5	61.1
82.5°	23.1	36.2	42.7	46.3	46.3
85°	13.6	24.9	31.5	35.0	35.0
87.5°	7.7	16.6	23.1	27.3	26.7
90°	1.8	3.0	3.0	2.4	2.4
92.5°	21.4	58.2	19.0	17.8	17.8
95°	39.8	310.9	229.1	38.6	38.6
97.5°	55.2	378.0	648.6	785.1	590.4
100°	75.4	453.4	690.1	850.3	903.8
102.5°	94.9	481.2	729.3	874.1	927.5
105°	117.5	493.7	771.4	907.3	956.6
107.5°	139.4	500.8	823.0	936.4	983.9
110°	162.0	504.4	853.9	970.2	1011.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.8	507.4	842.0	1009.4	1042.6
115°	204.7	510.3	834.9	1031.9	1077.6
117.5°	226.1	512.1	826.6	1008.8	1077.6
120°	247.4	515.1	819.5	993.4	1053.3
122.5°	265.3	518.6	811.2	979.7	1036.7
125°	285.4	521.6	801.7	964.9	1020.7
127.5°	305.0	524.6	791.0	949.4	1004.6
130°	322.2	531.1	780.3	934.0	985.0
132.5°	337.6	534.7	768.5	915.6	966.1
135°	353.1	535.8	756.0	897.8	945.9
137.5°	367.9	535.2	743.5	877.6	923.3
140°	383.3	533.5	728.1	856.9	900.2
142.5°	397.0	529.9	712.7	833.7	874.1
145°	410.0	525.8	696.7	809.4	847.4
147.5°	421.3	519.2	684.2	783.3	820.1
150°	432.0	512.1	669.4	756.6	789.2
152.5°	439.7	505.6	651.0	731.1	758.4
155°	449.2	499.6	628.4	708.5	732.9
157.5°	455.1	494.9	604.7	680.6	704.4
160°	462.9	491.3	580.3	650.4	672.3
162.5°	468.2	487.8	553.6	616.5	637.9
165°	471.8	484.8	529.3	580.9	600.5
167.5°	475.3	483.6	511.5	543.6	559.0
170°	478.3	482.4	499.1	515.7	524.0
172.5°	480.1	481.8	489.0	497.9	502.0
175°	481.2	481.8	484.8	486.6	487.8
177.5°	481.8	481.8	481.8	481.2	481.8
180°	481.2	481.2	481.2	481.2	481.2

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