

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: P253578

Luminaire Tested: **J3-UL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-40L83050-1D-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: 3794.2 lumens
Efficiency: N/A
Efficacy: 136.5 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

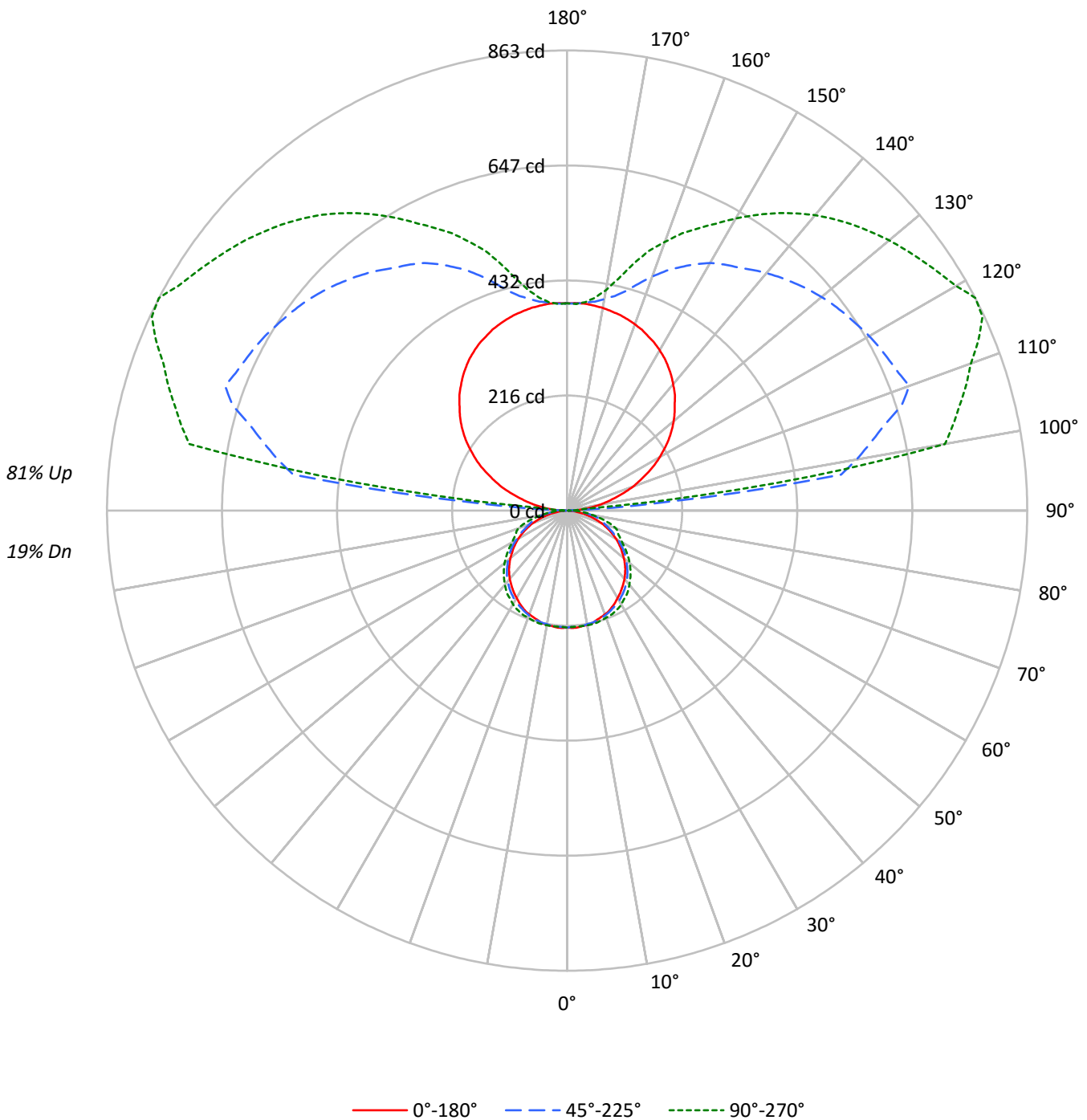
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1771	1771	1771
5°	1785	1770	1770
10°	1783	1775	1790
15°	1778	1786	1818
20°	1779	1796	1836
25°	1777	1802	1870
30°	1763	1816	1895
35°	1761	1826	1910
40°	1764	1823	1913
45°	1759	1824	1921
50°	1746	1817	1924
55°	1730	1810	1917
60°	1710	1786	1923
65°	1662	1771	2023
70°	1607	1784	2299
75°	1475	2034	2330
80°	1274	2064	2241
85°	963	2279	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	0.5
10°-20°	60.7	1.6
20°-30°	93.9	2.5
30°-40°	116.2	3.1
40°-50°	123.9	3.3
50°-60°	115.5	3.0
60°-70°	94.3	2.5
70°-80°	64.9	1.7
80°-90°	25.4	0.7
90°-100°	220.9	5.8
100°-110°	572.6	15.1
110°-120°	594.0	15.7
120°-130°	528.7	13.9
130°-140°	440.5	11.6
140°-150°	335.5	8.8
150°-160°	225.9	6.0
160°-170°	122.6	3.2
170°-180°	37.7	1.0
0°-30°	175.5	4.6
0°-40°	291.7	7.7
0°-60°	531.0	14.0
0°-90°	715.6	18.9
90°-120°	1387.5	36.6
90°-150°	2692.2	71.0
90°-180°	3079.0	81.2
0°-180°	3794.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	219	219	219	219	219	
5°	220	220	218	218	218	21
15°	213	214	214	216	218	60
25°	200	200	202	208	210	92
35°	179	181	185	191	194	112
45°	154	156	160	166	168	119
55°	123	126	129	132	136	110
65°	87	89	93	101	106	86
75°	47	50	65	73	75	50
85°	10	20	25	28	27	12
90°	2	2	2	2	2	4
95°	32	250	192	31	30	32
105°	94	396	615	728	762	100
115°	166	409	667	832	860	164
125°	233	419	639	775	815	207
135°	286	430	603	721	758	221
145°	330	423	557	649	681	207
155°	360	404	504	568	584	166
165°	380	392	426	466	478	107
175°	390	391	391	393	392	37
180°	389	389	389	389	389	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	219.4	219.4	219.4	219.4	219.4
2.5°	220.3	220.3	218.4	218.4	218.4
5°	220.3	220.3	218.4	218.4	218.4
7.5°	218.4	219.4	218.4	218.4	218.4
10°	217.5	217.5	216.5	217.5	218.4
12.5°	216.5	216.5	215.6	217.5	218.4
15°	212.7	213.7	213.7	216.5	217.5
17.5°	209.9	210.8	211.8	214.6	215.6
20°	207.1	207.1	209.0	212.7	213.7
22.5°	204.2	204.2	206.1	210.8	212.7
25°	199.5	199.5	202.3	208.0	209.9
27.5°	194.8	195.7	198.6	204.2	207.1
30°	189.1	191.0	194.8	200.4	203.3
32.5°	184.4	186.3	190.0	195.7	197.6
35°	178.7	180.6	185.3	191.0	193.8
37.5°	173.0	174.9	179.6	185.3	188.2
40°	167.4	169.2	173.0	179.6	181.5
42.5°	160.7	162.6	167.4	173.0	174.9
45°	154.1	156.0	159.8	165.5	168.3
47.5°	146.6	149.4	152.2	157.9	160.7
50°	139.0	141.8	144.7	150.3	153.2
52.5°	130.5	134.3	137.1	141.8	144.7
55°	122.9	125.8	128.6	132.4	136.2
57.5°	114.4	117.2	120.1	124.8	127.6
60°	105.9	107.8	110.6	115.4	119.1
62.5°	96.4	99.3	101.2	106.8	112.5
65°	87.0	88.9	92.7	101.2	105.9
67.5°	77.5	79.4	83.2	95.5	103.1
70°	68.1	70.0	75.6	92.7	97.4
72.5°	56.7	59.6	69.0	85.1	87.0
75°	47.3	50.1	65.2	72.8	74.7
77.5°	36.9	40.7	55.8	60.5	61.5
80°	27.4	34.0	44.4	48.2	48.2
82.5°	18.0	28.4	34.0	37.8	37.8
85°	10.4	19.9	24.6	28.4	27.4
87.5°	6.6	13.2	18.9	21.7	20.8
90°	1.9	1.9	1.9	1.9	1.9
92.5°	18.0	50.1	15.1	14.2	14.2
95°	32.1	249.6	191.9	31.2	30.3
97.5°	45.4	304.5	518.1	611.7	397.1
100°	61.5	362.1	551.2	681.7	719.5
102.5°	76.6	386.7	581.5	700.6	741.3
105°	93.6	396.2	614.6	728.0	762.1
107.5°	112.5	401.8	658.1	750.7	784.8
110°	131.4	404.7	682.7	781.0	805.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.4	406.6	673.2	812.2	834.9
115°	165.5	409.4	666.6	832.0	859.5
117.5°	184.4	411.3	660.9	813.1	863.2
120°	200.4	414.1	654.3	799.9	842.4
122.5°	216.5	417.0	646.7	787.6	828.3
125°	232.6	418.9	639.2	775.3	815.0
127.5°	246.8	420.7	631.6	762.1	801.8
130°	261.0	426.4	623.1	749.8	788.5
132.5°	273.3	430.2	613.6	734.7	773.4
135°	285.5	430.2	603.2	721.4	758.3
137.5°	298.8	430.2	592.8	704.4	741.3
140°	309.2	428.3	581.5	687.4	723.3
142.5°	320.5	426.4	569.2	669.4	702.5
145°	330.0	422.6	556.9	648.6	680.8
147.5°	339.4	417.9	547.4	627.8	657.1
150°	347.0	413.2	536.1	607.0	632.5
152.5°	354.6	407.5	521.0	587.2	607.0
155°	360.2	403.7	504.0	568.2	584.3
157.5°	366.9	400.9	486.9	546.5	562.6
160°	371.6	397.1	467.1	521.9	536.1
162.5°	376.3	394.3	446.3	495.4	510.6
165°	380.1	392.4	426.4	466.1	478.4
167.5°	382.9	391.4	412.2	436.8	445.3
170°	385.8	390.5	402.8	417.0	419.8
172.5°	387.7	390.5	395.2	401.8	402.8
175°	389.5	391.4	391.4	393.3	392.4
177.5°	389.5	390.5	388.6	389.5	387.7
180°	388.6	388.6	388.6	388.6	388.6

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