

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: P253452

Luminaire Tested: **J3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-20L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR 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: 2361.4 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

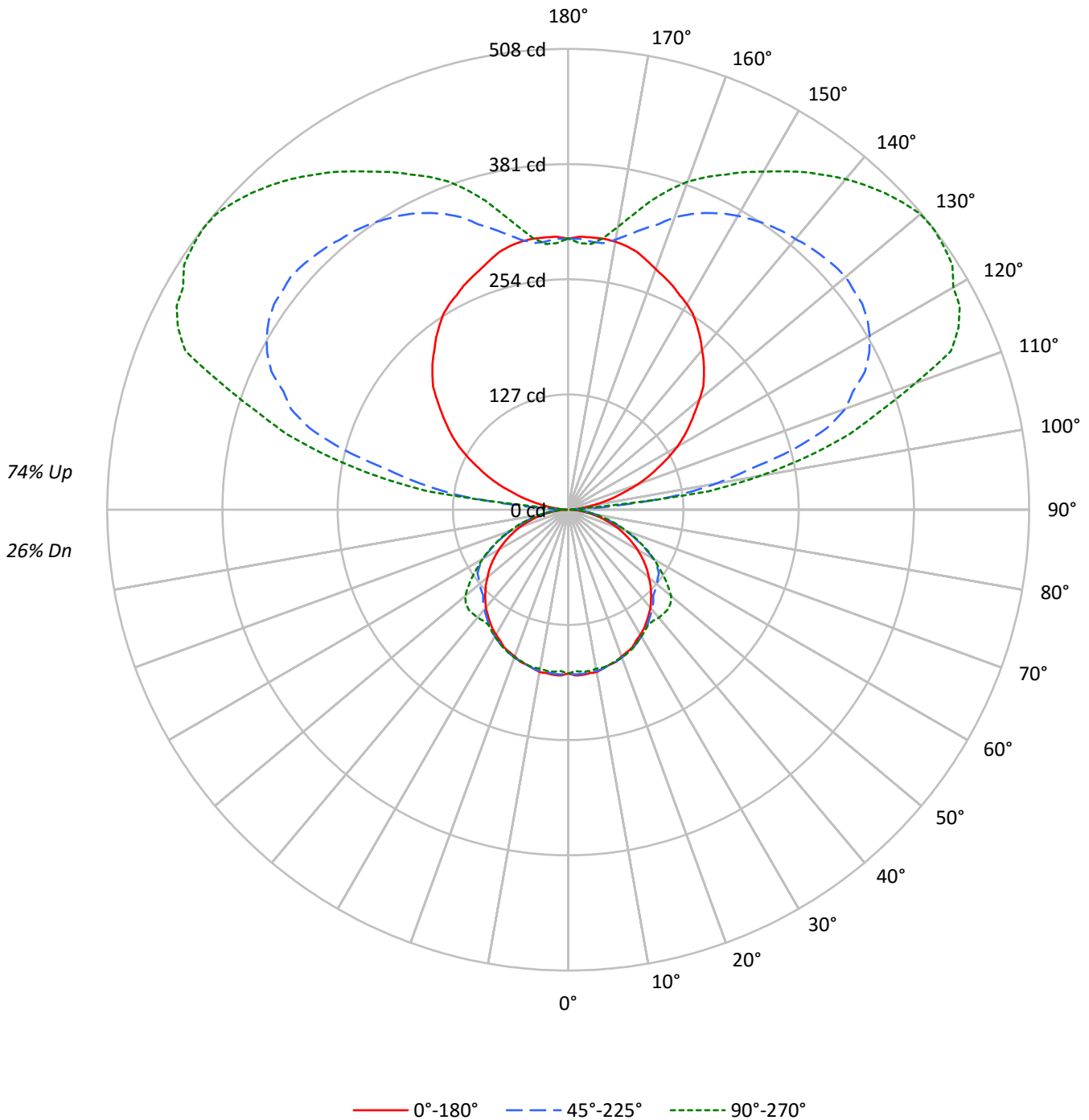
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1457	1457	1457
5°	1482	1472	1453
10°	1489	1480	1460
15°	1478	1478	1478
20°	1479	1489	1489
25°	1490	1501	1501
30°	1482	1504	1504
35°	1484	1508	1520
40°	1486	1511	1638
45°	1474	1515	1774
50°	1456	1606	1861
55°	1447	1716	1817
60°	1427	1757	1757
65°	1393	1666	1689
70°	1355	1579	1607
75°	1266	1491	1528
80°	1167	1446	1390
85°	1112	1547	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.7
10°-20°	49.9	2.1
20°-30°	77.2	3.3
30°-40°	95.8	4.1
40°-50°	107.1	4.5
50°-60°	104.7	4.4
60°-70°	82.6	3.5
70°-80°	50.0	2.1
80°-90°	17.8	0.8
90°-100°	61.4	2.6
100°-110°	237.2	10.0
110°-120°	326.0	13.8
120°-130°	329.8	14.0
130°-140°	292.3	12.4
140°-150°	231.2	9.8
150°-160°	161.4	6.8
160°-170°	91.3	3.9
170°-180°	28.6	1.2
0°-30°	144.3	6.1
0°-40°	240.1	10.2
0°-60°	451.9	19.1
0°-90°	602.3	25.5
90°-120°	624.5	26.4
90°-150°	1477.8	62.6
90°-180°	1759.0	74.5
0°-180°	2361.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	180	180	180	180	180	
5°	183	180	182	180	179	17
15°	177	176	177	177	177	50
25°	167	165	168	168	168	77
35°	151	151	153	154	154	94
45°	129	130	133	149	155	100
55°	103	104	122	129	129	92
65°	73	76	87	88	88	72
75°	41	48	48	49	49	43
85°	12	19	17	16	14	13
90°	2	7	6	1	1	2
95°	10	48	57	12	12	12
105°	53	170	257	296	320	56
115°	109	230	361	447	474	108
125°	164	265	396	482	506	146
135°	212	292	396	473	494	163
145°	247	299	384	440	454	155
155°	272	292	361	400	408	126
165°	294	293	320	348	353	83
175°	301	298	296	296	294	29
180°	299	299	299	299	299	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	180.5	180.5	180.5	180.5	180.5
2.5°	182.9	180.5	181.7	180.5	178.1
5°	182.9	180.5	181.7	180.5	179.3
7.5°	181.7	180.5	180.5	179.3	179.3
10°	181.7	179.3	180.5	179.3	178.1
12.5°	179.3	178.1	179.3	178.1	178.1
15°	176.9	175.7	176.9	176.9	176.9
17.5°	175.7	173.3	175.7	175.7	174.5
20°	172.1	170.9	173.3	173.3	173.3
22.5°	169.7	168.5	170.9	170.9	170.9
25°	167.3	164.9	168.5	168.5	168.5
27.5°	162.5	162.5	164.9	166.1	164.9
30°	159.0	157.8	161.3	162.5	161.3
32.5°	155.4	154.2	157.8	159.0	157.8
35°	150.6	150.6	153.0	154.2	154.2
37.5°	145.8	145.8	148.2	149.4	154.2
40°	141.0	141.0	143.4	150.6	155.4
42.5°	135.1	135.1	138.6	149.4	155.4
45°	129.1	130.3	132.7	149.4	155.4
47.5°	123.1	124.3	130.3	148.2	153.0
50°	115.9	118.3	127.9	144.6	148.2
52.5°	110.0	111.1	124.3	138.6	138.6
55°	102.8	104.0	121.9	129.1	129.1
57.5°	95.6	96.8	115.9	118.3	118.3
60°	88.4	89.6	108.8	108.8	108.8
62.5°	80.1	82.5	98.0	99.2	99.2
65°	72.9	76.5	87.2	88.4	88.4
67.5°	64.5	70.5	77.7	78.9	78.9
70°	57.4	64.5	66.9	68.1	68.1
72.5°	49.0	56.2	57.4	58.6	58.6
75°	40.6	47.8	47.8	49.0	49.0
77.5°	32.3	38.2	39.4	39.4	39.4
80°	25.1	28.7	31.1	29.9	29.9
82.5°	17.9	22.7	22.7	22.7	21.5
85°	12.0	19.1	16.7	15.5	14.3
87.5°	7.2	16.7	9.6	8.4	8.4
90°	2.4	7.2	6.0	1.2	1.2
92.5°	4.8	12.0	6.0	4.8	3.6
95°	9.6	47.8	57.4	12.0	12.0
97.5°	17.9	80.1	123.1	145.8	156.6
100°	27.5	119.5	164.9	202.0	215.1
102.5°	39.4	144.6	203.2	249.8	268.9
105°	52.6	169.7	257.0	296.4	320.3
107.5°	65.7	188.8	298.8	343.0	359.7
110°	81.3	204.4	325.1	401.6	406.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	216.3	339.4	430.2	456.5
115°	108.8	229.5	360.9	447.0	474.5
117.5°	124.3	239.0	374.1	456.5	486.4
120°	138.6	247.4	383.6	468.5	490.0
122.5°	151.8	257.0	390.8	478.1	502.0
125°	163.7	265.3	395.6	481.6	505.5
127.5°	175.7	272.5	396.8	482.8	507.9
130°	188.8	279.7	399.2	481.6	506.7
132.5°	202.0	286.8	398.0	478.1	500.8
135°	211.5	291.6	395.6	473.3	493.6
137.5°	221.1	295.2	393.2	466.1	485.2
140°	229.5	297.6	389.6	457.7	475.7
142.5°	239.0	298.8	387.2	449.4	464.9
145°	247.4	298.8	383.6	439.8	454.2
147.5°	255.8	297.6	378.9	430.2	442.2
150°	261.7	295.2	374.1	420.7	430.2
152.5°	266.5	292.8	368.1	409.9	419.5
155°	272.5	291.6	360.9	400.4	407.5
157.5°	277.3	291.6	352.6	389.6	396.8
160°	282.1	291.6	343.0	378.9	384.8
162.5°	288.0	291.6	329.9	363.3	369.3
165°	294.0	292.8	320.3	347.8	352.6
167.5°	297.6	292.8	310.7	328.7	333.4
170°	300.0	295.2	302.4	315.5	316.7
172.5°	301.2	297.6	296.4	302.4	302.4
175°	301.2	297.6	296.4	296.4	294.0
177.5°	301.2	298.8	298.8	297.6	294.0
180°	298.8	298.8	298.8	298.8	298.8

(END OF REPORT)