

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: P253441

Luminaire Tested: **J3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253441
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-30L83050-1D-UNV-W2A-W-4 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2728.0 lumens
Efficiency: N/A
Efficacy: 131.8 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

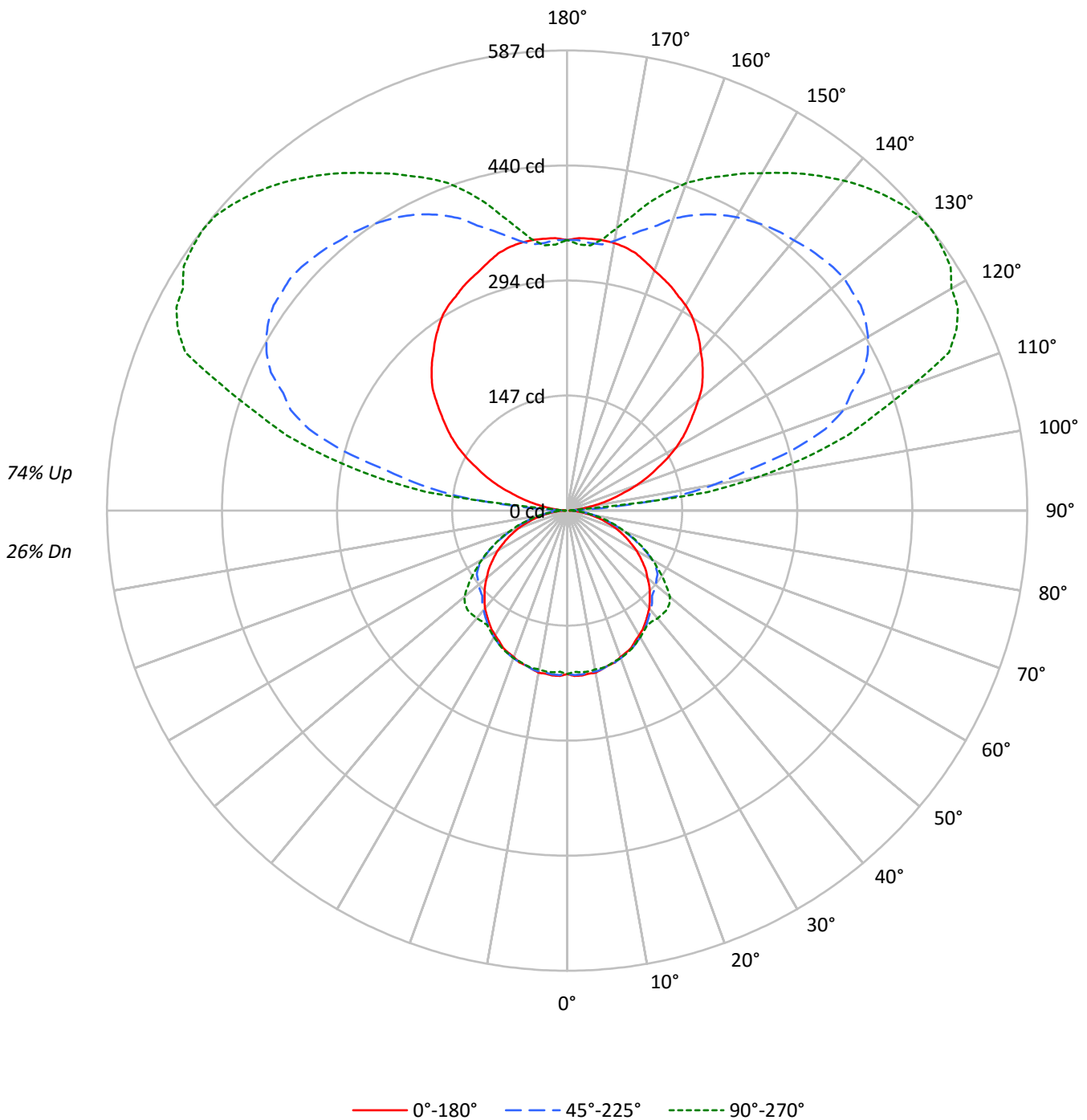
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1683	1683	1683
5°	1712	1701	1678
10°	1721	1709	1686
15°	1707	1707	1707
20°	1708	1720	1720
25°	1722	1734	1734
30°	1711	1738	1738
35°	1715	1741	1755
40°	1717	1746	1892
45°	1702	1750	2049
50°	1682	1855	2150
55°	1671	1982	2099
60°	1650	2028	2028
65°	1608	1926	1952
70°	1565	1825	1858
75°	1463	1722	1765
80°	1348	1669	1604
85°	1278	1788	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.7
10°-20°	57.7	2.1
20°-30°	89.2	3.3
30°-40°	110.6	4.1
40°-50°	123.8	4.5
50°-60°	120.9	4.4
60°-70°	95.4	3.5
70°-80°	57.7	2.1
80°-90°	20.5	0.8
90°-100°	70.9	2.6
100°-110°	274.0	10.0
110°-120°	376.6	13.8
120°-130°	381.0	14.0
130°-140°	337.6	12.4
140°-150°	267.0	9.8
150°-160°	186.5	6.8
160°-170°	105.5	3.9
170°-180°	33.1	1.2
0°-30°	166.8	6.1
0°-40°	277.4	10.2
0°-60°	522.1	19.1
0°-90°	695.8	25.5
90°-120°	721.5	26.4
90°-150°	1707.1	62.6
90°-180°	2032.0	74.5
0°-180°	2728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	208	208	208	208	208	
5°	211	208	210	208	207	20
15°	204	203	204	204	204	58
25°	193	190	195	195	195	89
35°	174	174	177	178	178	109
45°	149	150	153	173	180	115
55°	119	120	141	149	149	106
65°	84	88	101	102	102	83
75°	47	55	55	57	57	50
85°	14	22	19	18	17	14
90°	3	8	7	1	1	3
95°	11	55	66	14	14	14
105°	61	196	297	342	370	65
115°	126	265	417	516	548	125
125°	189	306	457	556	584	169
135°	244	337	457	547	570	188
145°	286	345	443	508	525	179
155°	315	337	417	462	471	145
165°	340	338	370	402	407	96
175°	348	344	342	342	340	33
180°	345	345	345	345	345	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	208.5	208.5	208.5	208.5	208.5
2.5°	211.2	208.5	209.9	208.5	205.7
5°	211.2	208.5	209.9	208.5	207.1
7.5°	209.9	208.5	208.5	207.1	207.1
10°	209.9	207.1	208.5	207.1	205.7
12.5°	207.1	205.7	207.1	205.7	205.7
15°	204.3	203.0	204.3	204.3	204.3
17.5°	203.0	200.2	203.0	203.0	201.6
20°	198.8	197.4	200.2	200.2	200.2
22.5°	196.1	194.7	197.4	197.4	197.4
25°	193.3	190.5	194.7	194.7	194.7
27.5°	187.8	187.8	190.5	191.9	190.5
30°	183.6	182.2	186.4	187.8	186.4
32.5°	179.5	178.1	182.2	183.6	182.2
35°	174.0	174.0	176.7	178.1	178.1
37.5°	168.4	168.4	171.2	172.6	178.1
40°	162.9	162.9	165.7	174.0	179.5
42.5°	156.0	156.0	160.2	172.6	179.5
45°	149.1	150.5	153.3	172.6	179.5
47.5°	142.2	143.6	150.5	171.2	176.7
50°	133.9	136.7	147.7	167.1	171.2
52.5°	127.0	128.4	143.6	160.2	160.2
55°	118.7	120.1	140.8	149.1	149.1
57.5°	110.5	111.8	133.9	136.7	136.7
60°	102.2	103.5	125.6	125.6	125.6
62.5°	92.5	95.3	113.2	114.6	114.6
65°	84.2	88.4	100.8	102.2	102.2
67.5°	74.6	81.5	89.7	91.1	91.1
70°	66.3	74.6	77.3	78.7	78.7
72.5°	56.6	64.9	66.3	67.7	67.7
75°	46.9	55.2	55.2	56.6	56.6
77.5°	37.3	44.2	45.6	45.6	45.6
80°	29.0	33.1	35.9	34.5	34.5
82.5°	20.7	26.2	26.2	26.2	24.9
85°	13.8	22.1	19.3	17.9	16.6
87.5°	8.3	19.3	11.0	9.7	9.7
90°	2.8	8.3	6.9	1.4	1.4
92.5°	5.5	13.8	6.9	5.5	4.1
95°	11.0	55.2	66.3	13.8	13.8
97.5°	20.7	92.5	142.2	168.4	180.9
100°	31.8	138.1	190.5	233.3	248.5
102.5°	45.6	167.1	234.7	288.6	310.6
105°	60.7	196.1	296.8	342.4	370.0
107.5°	75.9	218.1	345.2	396.2	415.6
110°	93.9	236.1	375.5	463.9	469.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.5	249.9	392.1	497.0	527.4
115°	125.6	265.1	417.0	516.4	548.1
117.5°	143.6	276.1	432.1	527.4	561.9
120°	160.2	285.8	443.2	541.2	566.1
122.5°	175.3	296.8	451.5	552.3	579.9
125°	189.1	306.5	457.0	556.4	584.0
127.5°	203.0	314.8	458.4	557.8	586.8
130°	218.1	323.1	461.1	556.4	585.4
132.5°	233.3	331.4	459.8	552.3	578.5
135°	244.4	336.9	457.0	546.7	570.2
137.5°	255.4	341.0	454.2	538.4	560.5
140°	265.1	343.8	450.1	528.8	549.5
142.5°	276.1	345.2	447.3	519.1	537.1
145°	285.8	345.2	443.2	508.1	524.6
147.5°	295.5	343.8	437.7	497.0	510.8
150°	302.4	341.0	432.1	486.0	497.0
152.5°	307.9	338.3	425.2	473.6	484.6
155°	314.8	336.9	417.0	462.5	470.8
157.5°	320.3	336.9	407.3	450.1	458.4
160°	325.8	336.9	396.2	437.7	444.6
162.5°	332.7	336.9	381.1	419.7	426.6
165°	339.6	338.3	370.0	401.8	407.3
167.5°	343.8	338.3	359.0	379.7	385.2
170°	346.5	341.0	349.3	364.5	365.9
172.5°	347.9	343.8	342.4	349.3	349.3
175°	347.9	343.8	342.4	342.4	339.6
177.5°	347.9	345.2	345.2	343.8	339.6
180°	345.2	345.2	345.2	345.2	345.2

(END OF REPORT)