

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: P253453

Luminaire Tested: **J3-CL-30L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253453
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 (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: 3036.8 lumens
Efficiency: N/A
Efficacy: 143.2 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

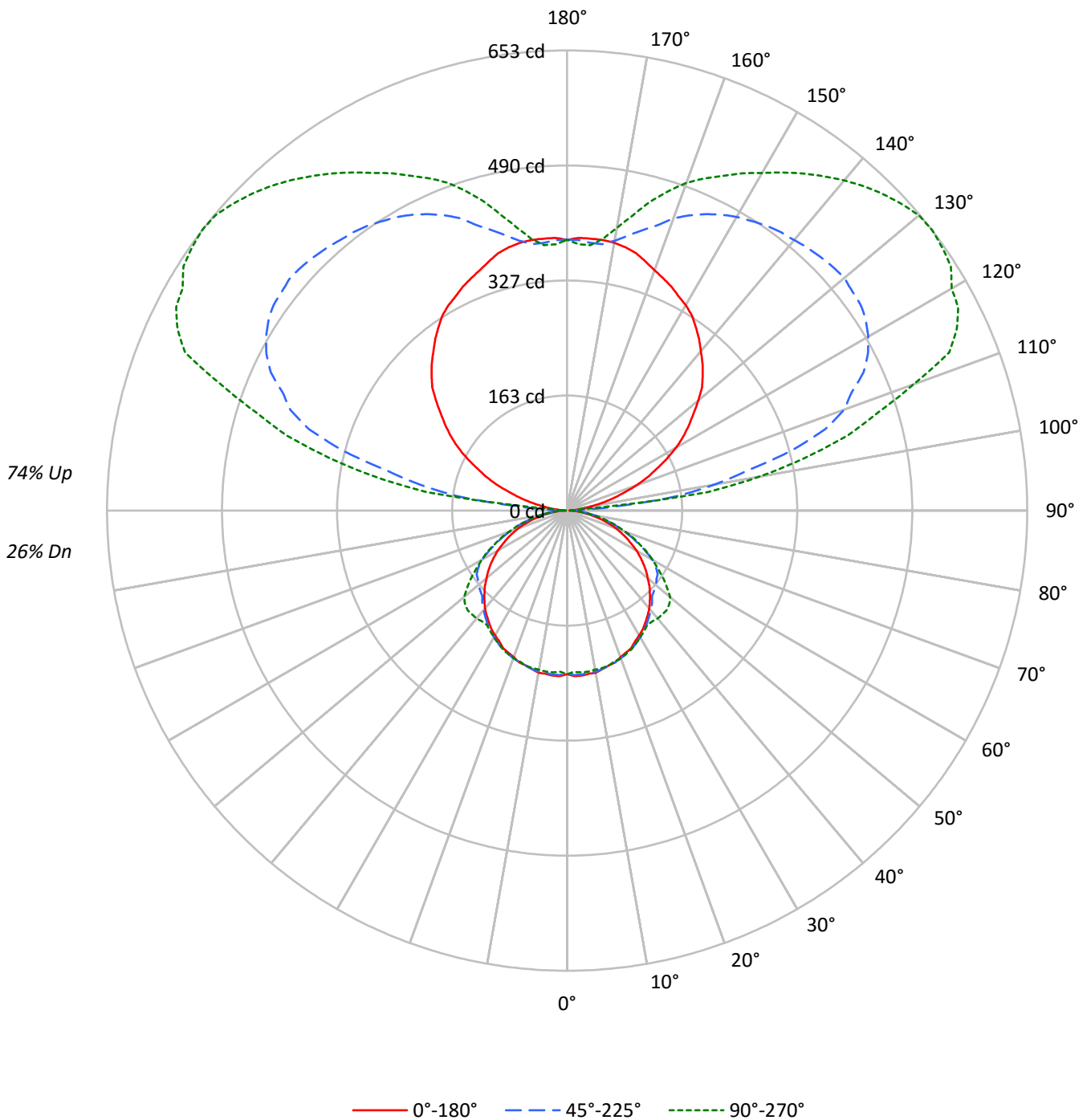
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1874	1874	1874
5°	1905	1893	1868
10°	1915	1903	1877
15°	1901	1901	1901
20°	1901	1915	1915
25°	1917	1930	1930
30°	1905	1934	1934
35°	1909	1939	1954
40°	1912	1943	2106
45°	1895	1948	2281
50°	1873	2066	2394
55°	1861	2207	2336
60°	1836	2259	2259
65°	1792	2143	2172
70°	1742	2032	2068
75°	1631	1918	1965
80°	1502	1860	1785
85°	1426	1991	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	0.7
10°-20°	64.2	2.1
20°-30°	99.3	3.3
30°-40°	123.1	4.1
40°-50°	137.8	4.5
50°-60°	134.6	4.4
60°-70°	106.2	3.5
70°-80°	64.3	2.1
80°-90°	22.9	0.8
90°-100°	78.9	2.6
100°-110°	305.0	10.0
110°-120°	419.2	13.8
120°-130°	424.1	14.0
130°-140°	375.9	12.4
140°-150°	297.3	9.8
150°-160°	207.6	6.8
160°-170°	117.5	3.9
170°-180°	36.8	1.2
0°-30°	185.6	6.1
0°-40°	308.8	10.2
0°-60°	581.2	19.1
0°-90°	774.6	25.5
90°-120°	803.1	26.4
90°-150°	1900.4	62.6
90°-180°	2262.0	74.5
0°-180°	3036.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	232	232	232	232	232	
5°	235	232	234	232	230	22
15°	228	226	228	228	228	64
25°	215	212	217	217	217	99
35°	194	194	197	198	198	121
45°	166	168	171	192	200	128
55°	132	134	157	166	166	118
65°	94	98	112	114	114	92
75°	52	62	62	63	63	55
85°	15	25	22	20	18	16
90°	3	9	8	2	2	3
95°	12	62	74	15	15	15
105°	68	218	330	381	412	72
115°	140	295	464	575	610	140
125°	211	341	509	619	650	188
135°	272	375	509	609	635	210
145°	318	384	493	566	584	199
155°	350	375	464	515	524	162
165°	378	376	412	447	453	106
175°	387	383	381	381	378	37
180°	384	384	384	384	384	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	232.1	232.1	232.1	232.1	232.1
2.5°	235.1	232.1	233.6	232.1	229.0
5°	235.1	232.1	233.6	232.1	230.5
7.5°	233.6	232.1	232.1	230.5	230.5
10°	233.6	230.5	232.1	230.5	229.0
12.5°	230.5	229.0	230.5	229.0	229.0
15°	227.5	225.9	227.5	227.5	227.5
17.5°	225.9	222.9	225.9	225.9	224.4
20°	221.3	219.8	222.9	222.9	222.9
22.5°	218.2	216.7	219.8	219.8	219.8
25°	215.2	212.1	216.7	216.7	216.7
27.5°	209.0	209.0	212.1	213.6	212.1
30°	204.4	202.9	207.5	209.0	207.5
32.5°	199.8	198.3	202.9	204.4	202.9
35°	193.7	193.7	196.7	198.3	198.3
37.5°	187.5	187.5	190.6	192.1	198.3
40°	181.4	181.4	184.4	193.7	199.8
42.5°	173.7	173.7	178.3	192.1	199.8
45°	166.0	167.5	170.6	192.1	199.8
47.5°	158.3	159.8	167.5	190.6	196.7
50°	149.1	152.2	164.5	186.0	190.6
52.5°	141.4	142.9	159.8	178.3	178.3
55°	132.2	133.7	156.8	166.0	166.0
57.5°	123.0	124.5	149.1	152.2	152.2
60°	113.7	115.3	139.9	139.9	139.9
62.5°	103.0	106.0	126.0	127.6	127.6
65°	93.8	98.4	112.2	113.7	113.7
67.5°	83.0	90.7	99.9	101.4	101.4
70°	73.8	83.0	86.1	87.6	87.6
72.5°	63.0	72.2	73.8	75.3	75.3
75°	52.3	61.5	61.5	63.0	63.0
77.5°	41.5	49.2	50.7	50.7	50.7
80°	32.3	36.9	40.0	38.4	38.4
82.5°	23.1	29.2	29.2	29.2	27.7
85°	15.4	24.6	21.5	20.0	18.4
87.5°	9.2	21.5	12.3	10.8	10.8
90°	3.1	9.2	7.7	1.5	1.5
92.5°	6.1	15.4	7.7	6.1	4.6
95°	12.3	61.5	73.8	15.4	15.4
97.5°	23.1	103.0	158.3	187.5	201.3
100°	35.3	153.7	212.1	259.7	276.6
102.5°	50.7	186.0	261.3	321.2	345.8
105°	67.6	218.2	330.4	381.2	411.9
107.5°	84.5	242.8	384.2	441.1	462.6
110°	104.5	262.8	418.0	516.4	522.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	123.0	278.2	436.5	553.3	587.1
115°	139.9	295.1	464.1	574.8	610.2
117.5°	159.8	307.4	481.1	587.1	625.5
120°	178.3	318.1	493.4	602.5	630.1
122.5°	195.2	330.4	502.6	614.8	645.5
125°	210.6	341.2	508.7	619.4	650.1
127.5°	225.9	350.4	510.3	620.9	653.2
130°	242.8	359.6	513.3	619.4	651.7
132.5°	259.7	368.9	511.8	614.8	644.0
135°	272.0	375.0	508.7	608.6	634.7
137.5°	284.3	379.6	505.6	599.4	624.0
140°	295.1	382.7	501.0	588.6	611.7
142.5°	307.4	384.2	498.0	577.9	597.9
145°	318.1	384.2	493.4	565.6	584.0
147.5°	328.9	382.7	487.2	553.3	568.7
150°	336.6	379.6	481.1	541.0	553.3
152.5°	342.7	376.5	473.4	527.2	539.5
155°	350.4	375.0	464.1	514.9	524.1
157.5°	356.6	375.0	453.4	501.0	510.3
160°	362.7	375.0	441.1	487.2	494.9
162.5°	370.4	375.0	424.2	467.2	474.9
165°	378.1	376.5	411.9	447.2	453.4
167.5°	382.7	376.5	399.6	422.7	428.8
170°	385.8	379.6	388.8	405.7	407.3
172.5°	387.3	382.7	381.2	388.8	388.8
175°	387.3	382.7	381.2	381.2	378.1
177.5°	387.3	384.2	384.2	382.7	378.1
180°	384.2	384.2	384.2	384.2	384.2

(END OF REPORT)