

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: P253487

Luminaire Tested: **J3-CL-80L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253487
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-80L93050-1D-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, 90 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7023.3 lumens
Efficiency: N/A
Efficacy: 109.9 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

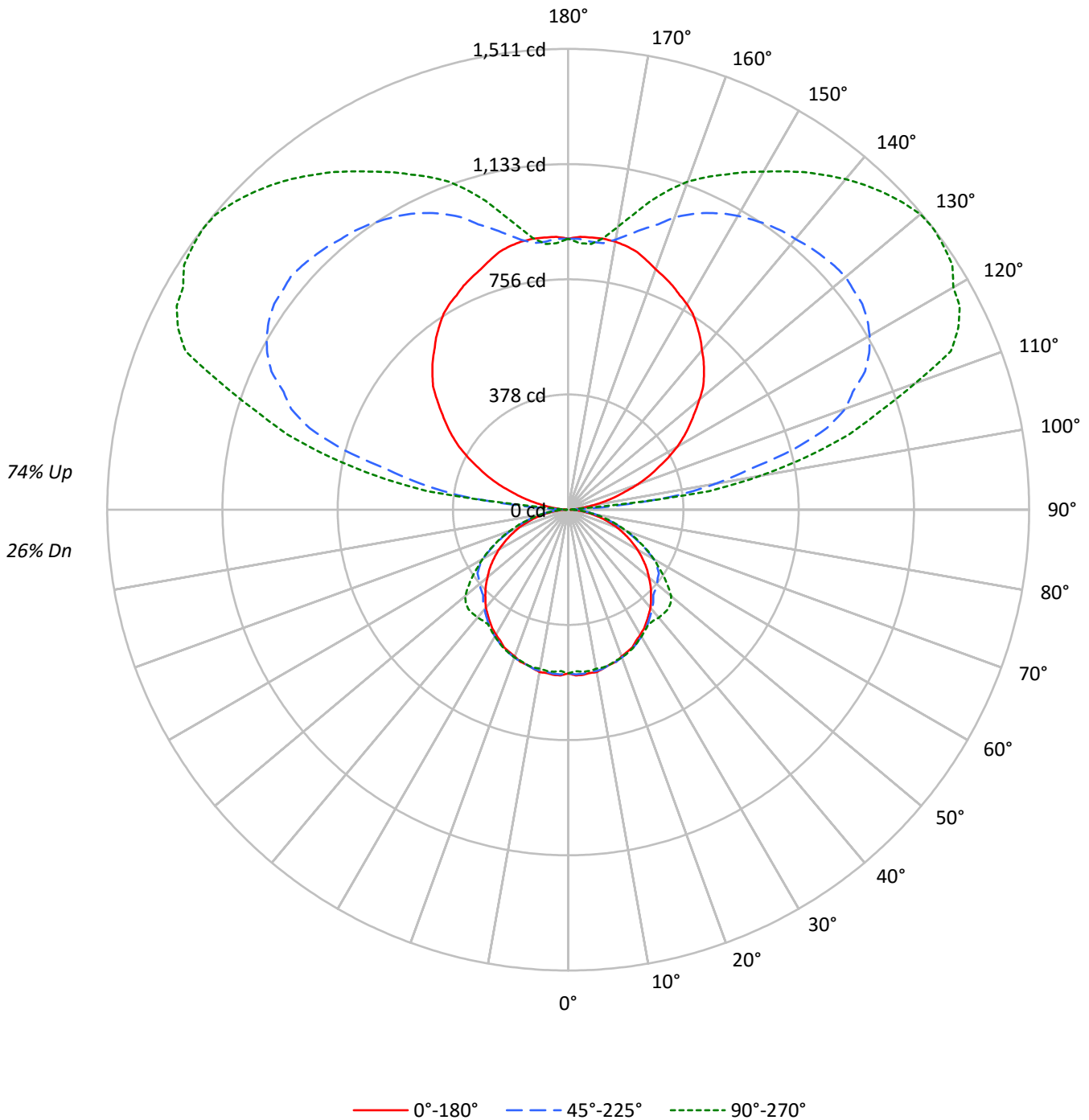
Input Watts (W): 63.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4333	4333	4333
5°	4407	4378	4321
10°	4429	4400	4341
15°	4397	4397	4397
20°	4398	4428	4428
25°	4432	4464	4464
30°	4407	4474	4474
35°	4414	4484	4519
40°	4420	4495	4870
45°	4383	4505	5276
50°	4330	4776	5536
55°	4303	5104	5403
60°	4246	5223	5223
65°	4141	4957	5024
70°	4027	4699	4782
75°	3771	4435	4545
80°	3468	4296	4133
85°	3288	4613	3955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	0.7
10°-20°	148.5	2.1
20°-30°	229.6	3.3
30°-40°	284.8	4.1
40°-50°	318.7	4.5
50°-60°	311.4	4.4
60°-70°	245.6	3.5
70°-80°	148.6	2.1
80°-90°	52.9	0.8
90°-100°	182.4	2.6
100°-110°	705.5	10.0
110°-120°	969.5	13.8
120°-130°	980.8	14.0
130°-140°	869.3	12.4
140°-150°	687.5	9.8
150°-160°	480.0	6.8
160°-170°	271.7	3.9
170°-180°	85.2	1.2
0°-30°	429.3	6.1
0°-40°	714.1	10.2
0°-60°	1344.1	19.1
0°-90°	1791.3	25.5
90°-120°	1857.4	26.4
90°-150°	4395.1	62.6
90°-180°	5232.0	74.5
0°-180°	7023.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	544	537	540	537	533	52
15°	526	522	526	526	526	149
25°	498	490	501	501	501	228
35°	448	448	455	458	458	280
45°	384	387	395	444	462	296
55°	306	309	363	384	384	273
65°	217	228	260	263	263	214
75°	121	142	142	146	146	128
85°	36	57	50	46	43	37
90°	7	21	18	4	4	7
95°	28	142	171	36	36	35
105°	156	505	764	882	953	166
115°	324	682	1074	1329	1411	323
125°	487	789	1177	1432	1504	436
135°	629	867	1177	1408	1468	485
145°	736	889	1141	1308	1351	460
155°	810	867	1074	1191	1212	374
165°	874	871	953	1034	1049	246
175°	896	885	882	882	874	85
180°	889	889	889	889	889	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.7	536.7	536.7	536.7	536.7
2.5°	543.8	536.7	540.3	536.7	529.6
5°	543.8	536.7	540.3	536.7	533.2
7.5°	540.3	536.7	536.7	533.2	533.2
10°	540.3	533.2	536.7	533.2	529.6
12.5°	533.2	529.6	533.2	529.6	529.6
15°	526.1	522.5	526.1	526.1	526.1
17.5°	522.5	515.4	522.5	522.5	519.0
20°	511.9	508.3	515.4	515.4	515.4
22.5°	504.7	501.2	508.3	508.3	508.3
25°	497.6	490.5	501.2	501.2	501.2
27.5°	483.4	483.4	490.5	494.1	490.5
30°	472.8	469.2	479.9	483.4	479.9
32.5°	462.1	458.5	469.2	472.8	469.2
35°	447.9	447.9	455.0	458.5	458.5
37.5°	433.7	433.7	440.8	444.3	458.5
40°	419.4	419.4	426.5	447.9	462.1
42.5°	401.7	401.7	412.3	444.3	462.1
45°	383.9	387.4	394.6	444.3	462.1
47.5°	366.1	369.7	387.4	440.8	455.0
50°	344.8	351.9	380.3	430.1	440.8
52.5°	327.0	330.6	369.7	412.3	412.3
55°	305.7	309.2	362.6	383.9	383.9
57.5°	284.4	287.9	344.8	351.9	351.9
60°	263.0	266.6	323.5	323.5	323.5
62.5°	238.2	245.3	291.5	295.0	295.0
65°	216.8	227.5	259.5	263.0	263.0
67.5°	191.9	209.7	231.0	234.6	234.6
70°	170.6	191.9	199.1	202.6	202.6
72.5°	145.7	167.1	170.6	174.2	174.2
75°	120.9	142.2	142.2	145.7	145.7
77.5°	96.0	113.7	117.3	117.3	117.3
80°	74.6	85.3	92.4	88.9	88.9
82.5°	53.3	67.5	67.5	67.5	64.0
85°	35.5	56.9	49.8	46.2	42.7
87.5°	21.3	49.8	28.4	24.9	24.9
90°	7.1	21.3	17.8	3.6	3.6
92.5°	14.2	35.5	17.8	14.2	10.7
95°	28.4	142.2	170.6	35.5	35.5
97.5°	53.3	238.2	366.1	433.7	465.6
100°	81.8	355.5	490.5	600.7	639.8
102.5°	117.3	430.1	604.3	742.9	799.8
105°	156.4	504.7	764.2	881.5	952.6
107.5°	195.5	561.6	888.6	1020.2	1069.9
110°	241.7	607.8	966.8	1194.3	1208.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.4	643.4	1009.5	1279.6	1357.8
115°	323.5	682.5	1073.5	1329.4	1411.2
117.5°	369.7	710.9	1112.6	1357.8	1446.7
120°	412.3	735.8	1141.0	1393.4	1457.4
122.5°	451.4	764.2	1162.3	1421.8	1492.9
125°	487.0	789.1	1176.6	1432.5	1503.6
127.5°	522.5	810.4	1180.1	1436.0	1510.7
130°	561.6	831.8	1187.2	1432.5	1507.1
132.5°	600.7	853.1	1183.7	1421.8	1489.4
135°	629.2	867.3	1176.6	1407.6	1468.0
137.5°	657.6	878.0	1169.4	1386.3	1443.1
140°	682.5	885.1	1158.8	1361.4	1414.7
142.5°	710.9	888.6	1151.7	1336.5	1382.7
145°	735.8	888.6	1141.0	1308.1	1350.7
147.5°	760.7	885.1	1126.8	1279.6	1315.2
150°	778.4	878.0	1112.6	1251.2	1279.6
152.5°	792.7	870.9	1094.8	1219.2	1247.6
155°	810.4	867.3	1073.5	1190.8	1212.1
157.5°	824.7	867.3	1048.6	1158.8	1180.1
160°	838.9	867.3	1020.2	1126.8	1144.6
162.5°	856.6	867.3	981.1	1080.6	1098.4
165°	874.4	870.9	952.6	1034.4	1048.6
167.5°	885.1	870.9	924.2	977.5	991.7
170°	892.2	878.0	899.3	938.4	942.0
172.5°	895.7	885.1	881.5	899.3	899.3
175°	895.7	885.1	881.5	881.5	874.4
177.5°	895.7	888.6	888.6	885.1	874.4
180°	888.6	888.6	888.6	888.6	888.6

(END OF REPORT)