

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: P253488

Luminaire Tested: **J3-CL-20L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253488
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-20L93050-1D-UNV-W2A-W-4 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2095.5 lumens
Efficiency: N/A
Efficacy: 124.0 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

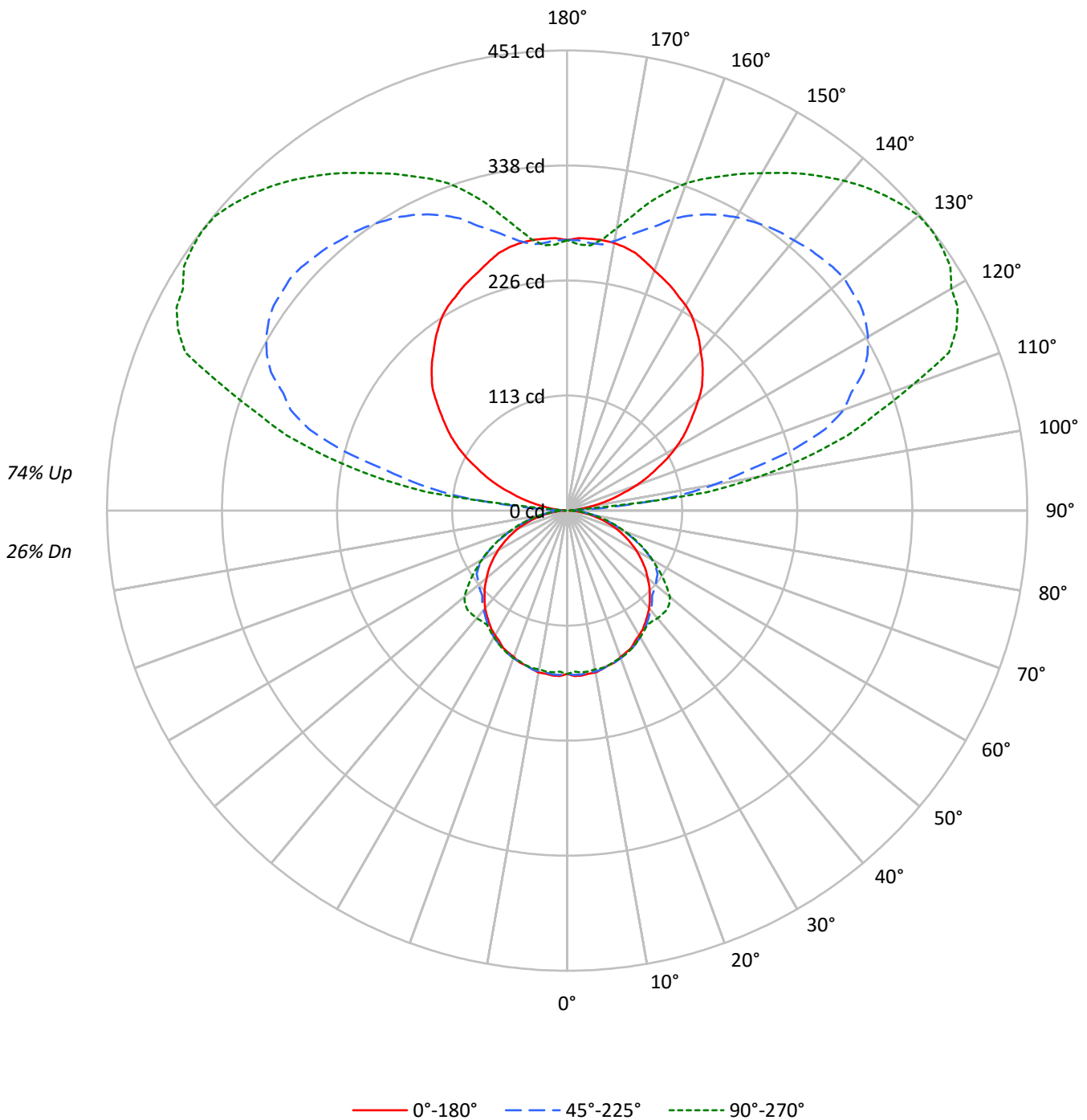
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1292	1292	1292
5°	1315	1306	1289
10°	1321	1312	1295
15°	1312	1312	1312
20°	1312	1321	1321
25°	1323	1332	1332
30°	1315	1335	1335
35°	1317	1337	1348
40°	1318	1342	1453
45°	1307	1344	1574
50°	1292	1425	1652
55°	1284	1523	1612
60°	1267	1558	1558
65°	1236	1479	1500
70°	1201	1402	1428
75°	1126	1323	1357
80°	1037	1283	1232
85°	982	1371	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	0.7
10°-20°	44.3	2.1
20°-30°	68.5	3.3
30°-40°	85.0	4.1
40°-50°	95.1	4.5
50°-60°	92.9	4.4
60°-70°	73.3	3.5
70°-80°	44.4	2.1
80°-90°	15.8	0.8
90°-100°	54.4	2.6
100°-110°	210.5	10.0
110°-120°	289.3	13.8
120°-130°	292.6	14.0
130°-140°	259.4	12.4
140°-150°	205.1	9.8
150°-160°	143.2	6.8
160°-170°	81.1	3.9
170°-180°	25.4	1.2
0°-30°	128.1	6.1
0°-40°	213.1	10.2
0°-60°	401.0	19.1
0°-90°	534.5	25.5
90°-120°	554.2	26.4
90°-150°	1311.3	62.6
90°-180°	1561.0	74.5
0°-180°	2095.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	160	160	160	160	160	
5°	162	160	161	160	159	15
15°	157	156	157	157	157	44
25°	148	146	150	150	150	68
35°	134	134	136	137	137	84
45°	114	116	118	133	138	88
55°	91	92	108	114	114	81
65°	65	68	77	78	78	64
75°	36	42	42	44	44	38
85°	11	17	15	14	13	11
90°	2	6	5	1	1	2
95°	8	42	51	11	11	11
105°	47	151	228	263	284	50
115°	96	204	320	397	421	96
125°	145	235	351	427	449	130
135°	188	259	351	420	438	145
145°	220	265	340	390	403	137
155°	242	259	320	355	362	111
165°	261	260	284	309	313	73
175°	267	264	263	263	261	25
180°	265	265	265	265	265	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	160.1	160.1	160.1	160.1	160.1
2.5°	162.3	160.1	161.2	160.1	158.0
5°	162.3	160.1	161.2	160.1	159.1
7.5°	161.2	160.1	160.1	159.1	159.1
10°	161.2	159.1	160.1	159.1	158.0
12.5°	159.1	158.0	159.1	158.0	158.0
15°	157.0	155.9	157.0	157.0	157.0
17.5°	155.9	153.8	155.9	155.9	154.8
20°	152.7	151.7	153.8	153.8	153.8
22.5°	150.6	149.5	151.7	151.7	151.7
25°	148.5	146.4	149.5	149.5	149.5
27.5°	144.2	144.2	146.4	147.4	146.4
30°	141.1	140.0	143.2	144.2	143.2
32.5°	137.9	136.8	140.0	141.1	140.0
35°	133.6	133.6	135.7	136.8	136.8
37.5°	129.4	129.4	131.5	132.6	136.8
40°	125.1	125.1	127.3	133.6	137.9
42.5°	119.8	119.8	123.0	132.6	137.9
45°	114.5	115.6	117.7	132.6	137.9
47.5°	109.2	110.3	115.6	131.5	135.7
50°	102.9	105.0	113.5	128.3	131.5
52.5°	97.6	98.6	110.3	123.0	123.0
55°	91.2	92.3	108.2	114.5	114.5
57.5°	84.8	85.9	102.9	105.0	105.0
60°	78.5	79.5	96.5	96.5	96.5
62.5°	71.1	73.2	87.0	88.0	88.0
65°	64.7	67.9	77.4	78.5	78.5
67.5°	57.3	62.6	68.9	70.0	70.0
70°	50.9	57.3	59.4	60.5	60.5
72.5°	43.5	49.8	50.9	52.0	52.0
75°	36.1	42.4	42.4	43.5	43.5
77.5°	28.6	33.9	35.0	35.0	35.0
80°	22.3	25.5	27.6	26.5	26.5
82.5°	15.9	20.2	20.2	20.2	19.1
85°	10.6	17.0	14.8	13.8	12.7
87.5°	6.4	14.8	8.5	7.4	7.4
90°	2.1	6.4	5.3	1.1	1.1
92.5°	4.2	10.6	5.3	4.2	3.2
95°	8.5	42.4	50.9	10.6	10.6
97.5°	15.9	71.1	109.2	129.4	138.9
100°	24.4	106.1	146.4	179.2	190.9
102.5°	35.0	128.3	180.3	221.7	238.6
105°	46.7	150.6	228.0	263.0	284.2
107.5°	58.3	167.6	265.1	304.4	319.2
110°	72.1	181.4	288.5	356.3	360.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.8	192.0	301.2	381.8	405.1
115°	96.5	203.6	320.3	396.6	421.0
117.5°	110.3	212.1	331.9	405.1	431.6
120°	123.0	219.5	340.4	415.7	434.8
122.5°	134.7	228.0	346.8	424.2	445.4
125°	145.3	235.4	351.0	427.4	448.6
127.5°	155.9	241.8	352.1	428.5	450.7
130°	167.6	248.2	354.2	427.4	449.7
132.5°	179.2	254.5	353.2	424.2	444.4
135°	187.7	258.8	351.0	420.0	438.0
137.5°	196.2	262.0	348.9	413.6	430.6
140°	203.6	264.1	345.7	406.2	422.1
142.5°	212.1	265.1	343.6	398.8	412.5
145°	219.5	265.1	340.4	390.3	403.0
147.5°	227.0	264.1	336.2	381.8	392.4
150°	232.3	262.0	331.9	373.3	381.8
152.5°	236.5	259.8	326.6	363.8	372.2
155°	241.8	258.8	320.3	355.3	361.6
157.5°	246.0	258.8	312.9	345.7	352.1
160°	250.3	258.8	304.4	336.2	341.5
162.5°	255.6	258.8	292.7	322.4	327.7
165°	260.9	259.8	284.2	308.6	312.9
167.5°	264.1	259.8	275.7	291.6	295.9
170°	266.2	262.0	268.3	280.0	281.0
172.5°	267.3	264.1	263.0	268.3	268.3
175°	267.3	264.1	263.0	263.0	260.9
177.5°	267.3	265.1	265.1	264.1	260.9
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)