

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: P253473

Luminaire Tested: **J3-CL-50L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253473
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-50L93050-1D-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, 90 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3735.1 lumens
Efficiency: N/A
Efficacy: 102.9 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

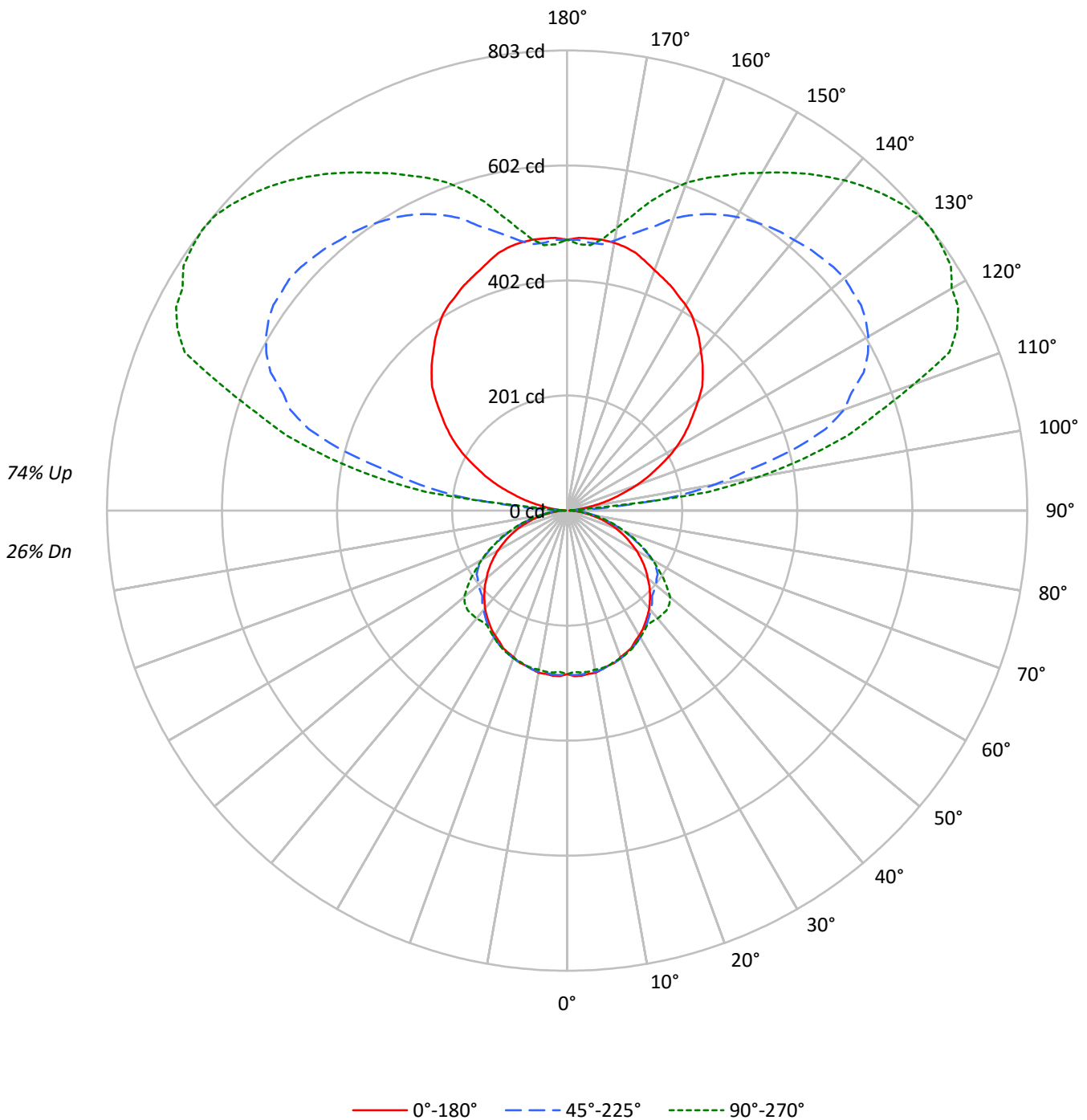
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2304	2304	2304
5°	2344	2328	2298
10°	2355	2340	2309
15°	2338	2338	2338
20°	2338	2355	2355
25°	2358	2374	2374
30°	2344	2379	2379
35°	2348	2385	2404
40°	2351	2390	2589
45°	2331	2395	2805
50°	2303	2541	2944
55°	2289	2714	2874
60°	2259	2777	2777
65°	2202	2636	2672
70°	2141	2500	2544
75°	2006	2358	2417
80°	1846	2283	2199
85°	1751	2455	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	0.7
10°-20°	79.0	2.1
20°-30°	122.1	3.3
30°-40°	151.4	4.1
40°-50°	169.5	4.5
50°-60°	165.6	4.4
60°-70°	130.6	3.5
70°-80°	79.0	2.1
80°-90°	28.1	0.8
90°-100°	97.0	2.6
100°-110°	375.2	10.0
110°-120°	515.6	13.8
120°-130°	521.6	14.0
130°-140°	462.3	12.4
140°-150°	365.6	9.8
150°-160°	255.3	6.8
160°-170°	144.5	3.9
170°-180°	45.3	1.2
0°-30°	228.3	6.1
0°-40°	379.8	10.2
0°-60°	714.8	19.1
0°-90°	952.6	25.5
90°-120°	987.8	26.4
90°-150°	2337.4	62.6
90°-180°	2782.0	74.5
0°-180°	3735.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	285	285	285	285	285	
5°	289	285	287	285	284	27
15°	280	278	280	280	280	79
25°	265	261	266	266	266	121
35°	238	238	242	244	244	149
45°	204	206	210	236	246	158
55°	163	164	193	204	204	145
65°	115	121	138	140	140	114
75°	64	76	76	78	78	68
85°	19	30	26	25	23	20
90°	4	11	10	2	2	4
95°	15	76	91	19	19	19
105°	83	268	406	469	507	88
115°	172	363	571	707	750	172
125°	259	420	626	762	800	232
135°	335	461	626	749	781	258
145°	391	473	607	696	718	245
155°	431	461	571	633	645	199
165°	465	463	507	550	558	131
175°	476	471	469	469	465	45
180°	473	473	473	473	473	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	285.4	285.4	285.4	285.4	285.4
2.5°	289.2	285.4	287.3	285.4	281.7
5°	289.2	285.4	287.3	285.4	283.6
7.5°	287.3	285.4	285.4	283.6	283.6
10°	287.3	283.6	285.4	283.6	281.7
12.5°	283.6	281.7	283.6	281.7	281.7
15°	279.8	277.9	279.8	279.8	279.8
17.5°	277.9	274.1	277.9	277.9	276.0
20°	272.2	270.3	274.1	274.1	274.1
22.5°	268.4	266.5	270.3	270.3	270.3
25°	264.7	260.9	266.5	266.5	266.5
27.5°	257.1	257.1	260.9	262.8	260.9
30°	251.4	249.5	255.2	257.1	255.2
32.5°	245.7	243.9	249.5	251.4	249.5
35°	238.2	238.2	242.0	243.9	243.9
37.5°	230.6	230.6	234.4	236.3	243.9
40°	223.1	223.1	226.8	238.2	245.7
42.5°	213.6	213.6	219.3	236.3	245.7
45°	204.2	206.0	209.8	236.3	245.7
47.5°	194.7	196.6	206.0	234.4	242.0
50°	183.4	187.1	202.3	228.7	234.4
52.5°	173.9	175.8	196.6	219.3	219.3
55°	162.6	164.5	192.8	204.2	204.2
57.5°	151.2	153.1	183.4	187.1	187.1
60°	139.9	141.8	172.0	172.0	172.0
62.5°	126.7	130.4	155.0	156.9	156.9
65°	115.3	121.0	138.0	139.9	139.9
67.5°	102.1	111.5	122.9	124.8	124.8
70°	90.7	102.1	105.9	107.8	107.8
72.5°	77.5	88.8	90.7	92.6	92.6
75°	64.3	75.6	75.6	77.5	77.5
77.5°	51.0	60.5	62.4	62.4	62.4
80°	39.7	45.4	49.1	47.3	47.3
82.5°	28.4	35.9	35.9	35.9	34.0
85°	18.9	30.2	26.5	24.6	22.7
87.5°	11.3	26.5	15.1	13.2	13.2
90°	3.8	11.3	9.5	1.9	1.9
92.5°	7.6	18.9	9.5	7.6	5.7
95°	15.1	75.6	90.7	18.9	18.9
97.5°	28.4	126.7	194.7	230.6	247.6
100°	43.5	189.0	260.9	319.5	340.3
102.5°	62.4	228.7	321.4	395.1	425.3
105°	83.2	268.4	406.4	468.8	506.6
107.5°	104.0	298.7	472.6	542.5	569.0
110°	128.5	323.3	514.2	635.2	642.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	151.2	342.2	536.9	680.5	722.1
115°	172.0	362.9	570.9	707.0	750.5
117.5°	196.6	378.1	591.7	722.1	769.4
120°	219.3	391.3	606.8	741.0	775.0
122.5°	240.1	406.4	618.1	756.1	794.0
125°	259.0	419.7	625.7	761.8	799.6
127.5°	277.9	431.0	627.6	763.7	803.4
130°	298.7	442.3	631.4	761.8	801.5
132.5°	319.5	453.7	629.5	756.1	792.1
135°	334.6	461.2	625.7	748.6	780.7
137.5°	349.7	466.9	621.9	737.2	767.5
140°	362.9	470.7	616.3	724.0	752.4
142.5°	378.1	472.6	612.5	710.8	735.4
145°	391.3	472.6	606.8	695.7	718.3
147.5°	404.5	470.7	599.2	680.5	699.4
150°	414.0	466.9	591.7	665.4	680.5
152.5°	421.6	463.1	582.2	648.4	663.5
155°	431.0	461.2	570.9	633.3	644.6
157.5°	438.6	461.2	557.7	616.3	627.6
160°	446.1	461.2	542.5	599.2	608.7
162.5°	455.6	461.2	521.7	574.7	584.1
165°	465.0	463.1	506.6	550.1	557.7
167.5°	470.7	463.1	491.5	519.9	527.4
170°	474.5	466.9	478.3	499.1	500.9
172.5°	476.4	470.7	468.8	478.3	478.3
175°	476.4	470.7	468.8	468.8	465.0
177.5°	476.4	472.6	472.6	470.7	465.0
180°	472.6	472.6	472.6	472.6	472.6

(END OF REPORT)