

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: P253451

Luminaire Tested: **J3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253451
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-80L83050-1D-UNV-W2A-W-4 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7646.4 lumens
Efficiency: N/A
Efficacy: 122.7 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

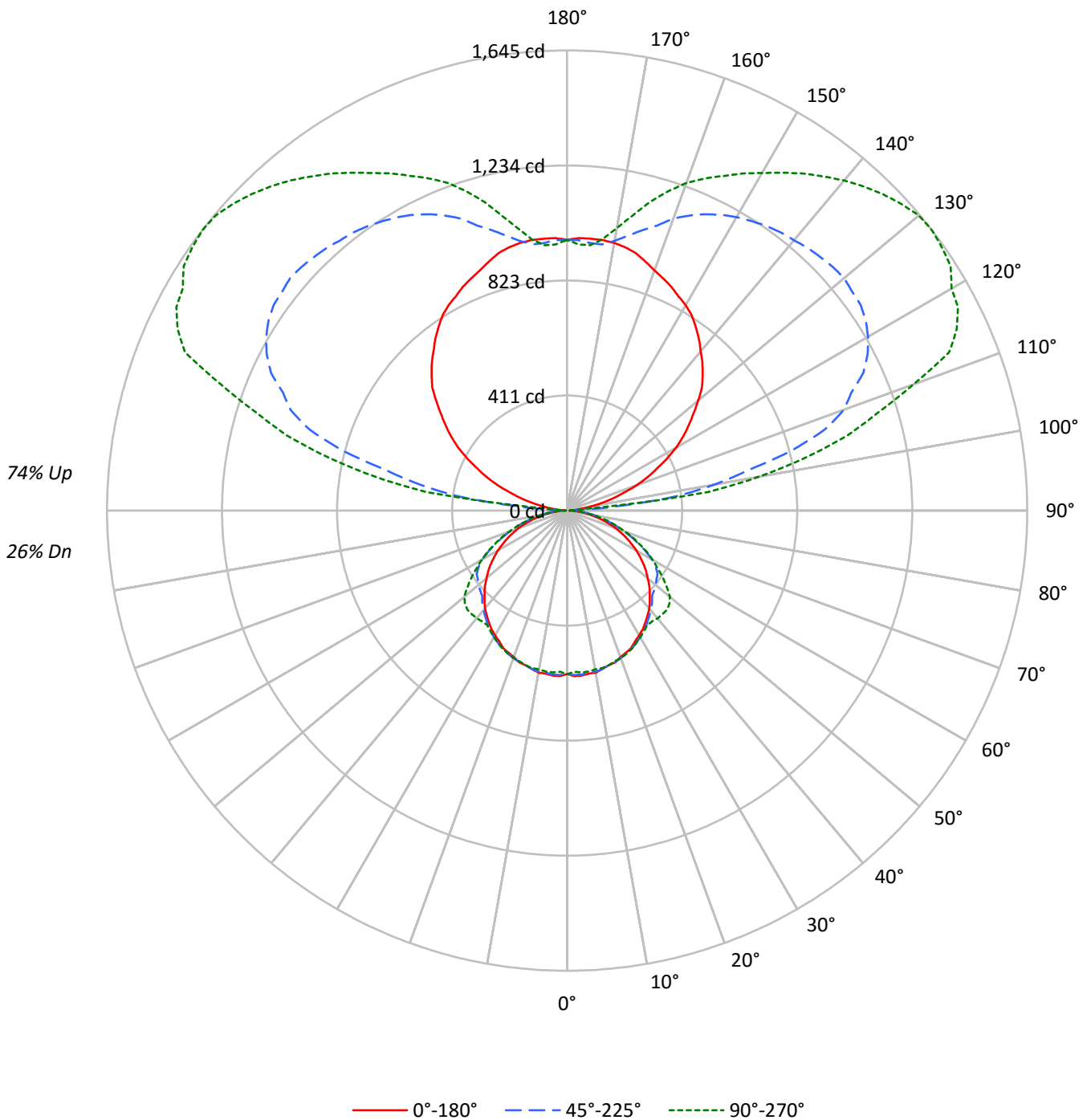
Input Watts (W): 62.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4718	4718	4718
5°	4798	4767	4704
10°	4822	4791	4727
15°	4786	4786	4786
20°	4788	4820	4820
25°	4826	4861	4861
30°	4798	4870	4870
35°	4805	4881	4920
40°	4812	4894	5302
45°	4771	4905	5744
50°	4715	5201	6027
55°	4684	5555	5882
60°	4624	5687	5687
65°	4510	5396	5471
70°	4386	5115	5207
75°	4105	4828	4950
80°	3780	4677	4496
85°	3585	5020	4298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	0.7
10°-20°	161.7	2.1
20°-30°	249.9	3.3
30°-40°	310.0	4.1
40°-50°	346.9	4.5
50°-60°	339.0	4.4
60°-70°	267.4	3.5
70°-80°	161.8	2.1
80°-90°	57.6	0.8
90°-100°	198.6	2.6
100°-110°	768.1	10.0
110°-120°	1055.6	13.8
120°-130°	1067.9	14.0
130°-140°	946.4	12.4
140°-150°	748.5	9.8
150°-160°	522.6	6.8
160°-170°	295.8	3.9
170°-180°	92.7	1.2
0°-30°	467.4	6.1
0°-40°	777.4	10.2
0°-60°	1463.3	19.1
0°-90°	1950.2	25.5
90°-120°	2022.2	26.4
90°-150°	4785.0	62.6
90°-180°	5696.0	74.5
0°-180°	7646.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	592	584	588	584	580	56
15°	573	569	573	573	573	162
25°	542	534	546	546	546	249
35°	488	488	495	499	499	305
45°	418	422	430	484	503	322
55°	333	337	395	418	418	297
65°	236	248	282	286	286	233
75°	132	155	155	159	159	139
85°	39	62	54	50	46	41
90°	8	23	19	4	4	7
95°	31	155	186	39	39	38
105°	170	550	832	960	1037	181
115°	352	743	1169	1447	1536	351
125°	530	859	1281	1560	1637	474
135°	685	944	1281	1532	1598	528
145°	801	968	1242	1424	1471	501
155°	882	944	1169	1296	1320	407
165°	952	948	1037	1126	1142	268
175°	975	964	960	960	952	93
180°	968	968	968	968	968	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.4	584.4	584.4	584.4	584.4
2.5°	592.1	584.4	588.2	584.4	576.6
5°	592.1	584.4	588.2	584.4	580.5
7.5°	588.2	584.4	584.4	580.5	580.5
10°	588.2	580.5	584.4	580.5	576.6
12.5°	580.5	576.6	580.5	576.6	576.6
15°	572.7	568.9	572.7	572.7	572.7
17.5°	568.9	561.1	568.9	568.9	565.0
20°	557.3	553.4	561.1	561.1	561.1
22.5°	549.5	545.7	553.4	553.4	553.4
25°	541.8	534.0	545.7	545.7	545.7
27.5°	526.3	526.3	534.0	537.9	534.0
30°	514.7	510.8	522.4	526.3	522.4
32.5°	503.1	499.2	510.8	514.7	510.8
35°	487.6	487.6	495.3	499.2	499.2
37.5°	472.1	472.1	479.9	483.7	499.2
40°	456.6	456.6	464.4	487.6	503.1
42.5°	437.3	437.3	448.9	483.7	503.1
45°	417.9	421.8	429.6	483.7	503.1
47.5°	398.6	402.5	421.8	479.9	495.3
50°	375.4	383.1	414.1	468.3	479.9
52.5°	356.0	359.9	402.5	448.9	448.9
55°	332.8	336.7	394.7	417.9	417.9
57.5°	309.6	313.5	375.4	383.1	383.1
60°	286.4	290.2	352.2	352.2	352.2
62.5°	259.3	267.0	317.3	321.2	321.2
65°	236.1	247.7	282.5	286.4	286.4
67.5°	209.0	228.3	251.5	255.4	255.4
70°	185.8	209.0	216.7	220.6	220.6
72.5°	158.7	181.9	185.8	189.6	189.6
75°	131.6	154.8	154.8	158.7	158.7
77.5°	104.5	123.8	127.7	127.7	127.7
80°	81.3	92.9	100.6	96.7	96.7
82.5°	58.0	73.5	73.5	73.5	69.7
85°	38.7	61.9	54.2	50.3	46.4
87.5°	23.2	54.2	31.0	27.1	27.1
90°	7.7	23.2	19.3	3.9	3.9
92.5°	15.5	38.7	19.3	15.5	11.6
95°	31.0	154.8	185.8	38.7	38.7
97.5°	58.0	259.3	398.6	472.1	507.0
100°	89.0	387.0	534.0	654.0	696.6
102.5°	127.7	468.3	657.9	808.8	870.7
105°	170.3	549.5	832.0	959.7	1037.1
107.5°	212.8	611.4	967.5	1110.7	1164.8
110°	263.2	661.8	1052.6	1300.3	1315.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.6	700.5	1099.1	1393.2	1478.3
115°	352.2	743.0	1168.7	1447.3	1536.4
117.5°	402.5	774.0	1211.3	1478.3	1575.1
120°	448.9	801.1	1242.2	1517.0	1586.7
122.5°	491.5	832.0	1265.5	1548.0	1625.4
125°	530.2	859.1	1280.9	1559.6	1637.0
127.5°	568.9	882.3	1284.8	1563.4	1644.7
130°	611.4	905.6	1292.5	1559.6	1640.8
132.5°	654.0	928.8	1288.7	1548.0	1621.5
135°	685.0	944.3	1280.9	1532.5	1598.3
137.5°	715.9	955.9	1273.2	1509.3	1571.2
140°	743.0	963.6	1261.6	1482.2	1540.2
142.5°	774.0	967.5	1253.8	1455.1	1505.4
145°	801.1	967.5	1242.2	1424.1	1470.6
147.5°	828.2	963.6	1226.8	1393.2	1431.9
150°	847.5	955.9	1211.3	1362.2	1393.2
152.5°	863.0	948.1	1191.9	1327.4	1358.3
155°	882.3	944.3	1168.7	1296.4	1319.6
157.5°	897.8	944.3	1141.6	1261.6	1284.8
160°	913.3	944.3	1110.7	1226.8	1246.1
162.5°	932.6	944.3	1068.1	1176.5	1195.8
165°	952.0	948.1	1037.1	1126.1	1141.6
167.5°	963.6	948.1	1006.2	1064.2	1079.7
170°	971.3	955.9	979.1	1021.7	1025.5
172.5°	975.2	963.6	959.7	979.1	979.1
175°	975.2	963.6	959.7	959.7	952.0
177.5°	975.2	967.5	967.5	963.6	952.0
180°	967.5	967.5	967.5	967.5	967.5

(END OF REPORT)