

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: P253457

Luminaire Tested: **J3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253457
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 (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: 8048.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

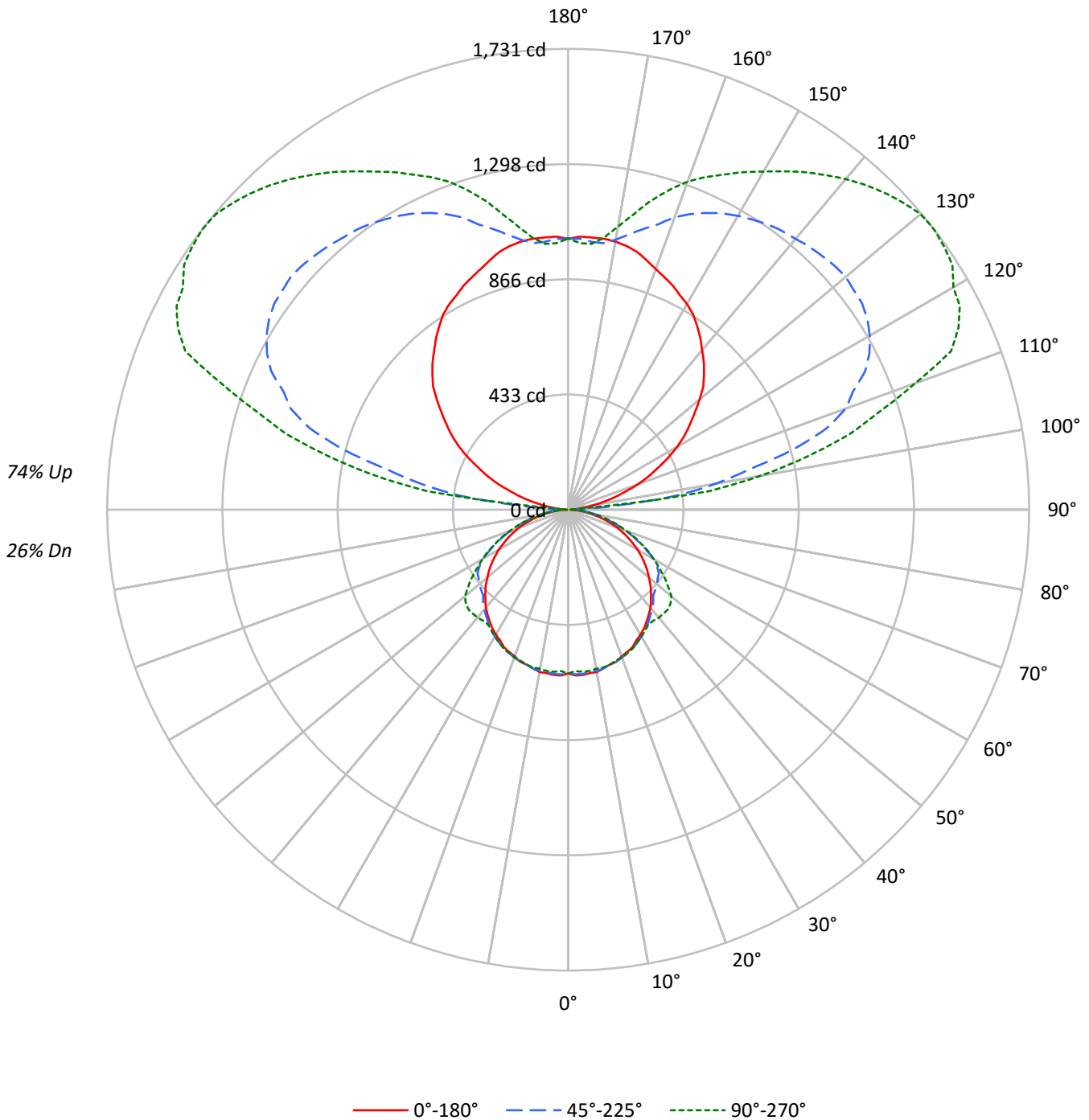
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4966	4966	4966
5°	5050	5017	4951
10°	5075	5042	4975
15°	5038	5038	5038
20°	5039	5074	5074
25°	5079	5116	5116
30°	5050	5126	5126
35°	5058	5139	5178
40°	5065	5151	5580
45°	5022	5162	6045
50°	4962	5473	6344
55°	4930	5848	6191
60°	4866	5985	5985
65°	4747	5679	5757
70°	4615	5384	5481
75°	4320	5081	5209
80°	3975	4923	4733
85°	3770	5280	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	0.7
10°-20°	170.2	2.1
20°-30°	263.1	3.3
30°-40°	326.3	4.1
40°-50°	365.1	4.5
50°-60°	356.8	4.4
60°-70°	281.5	3.5
70°-80°	170.3	2.1
80°-90°	60.7	0.8
90°-100°	209.0	2.6
100°-110°	808.4	10.0
110°-120°	1111.0	13.8
120°-130°	1124.0	14.0
130°-140°	996.1	12.4
140°-150°	787.8	9.8
150°-160°	550.1	6.8
160°-170°	311.3	3.9
170°-180°	97.6	1.2
0°-30°	492.0	6.1
0°-40°	818.3	10.2
0°-60°	1540.2	19.1
0°-90°	2052.7	25.5
90°-120°	2128.4	26.4
90°-150°	5036.4	62.6
90°-180°	5995.0	74.5
0°-180°	8048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	623	615	619	615	611	59
15°	603	599	603	603	603	171
25°	570	562	574	574	574	262
35°	513	513	521	525	525	321
45°	440	444	452	509	530	339
55°	350	354	416	440	440	313
65°	248	261	297	301	301	245
75°	138	163	163	167	167	147
85°	41	65	57	53	49	43
90°	8	24	20	4	4	8
95°	33	163	196	41	41	40
105°	179	578	876	1010	1092	191
115°	371	782	1230	1523	1617	370
125°	558	904	1348	1642	1723	499
135°	721	994	1348	1613	1682	555
145°	843	1018	1308	1499	1548	527
155°	929	994	1230	1364	1389	428
165°	1002	998	1092	1185	1202	282
175°	1026	1014	1010	1010	1002	98
180°	1018	1018	1018	1018	1018	



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CATALOG NUMBER: J3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.1	615.1	615.1	615.1	615.1
2.5°	623.2	615.1	619.1	615.1	606.9
5°	623.2	615.1	619.1	615.1	611.0
7.5°	619.1	615.1	615.1	611.0	611.0
10°	619.1	611.0	615.1	611.0	606.9
12.5°	611.0	606.9	611.0	606.9	606.9
15°	602.8	598.8	602.8	602.8	602.8
17.5°	598.8	590.6	598.8	598.8	594.7
20°	586.5	582.5	590.6	590.6	590.6
22.5°	578.4	574.3	582.5	582.5	582.5
25°	570.2	562.1	574.3	574.3	574.3
27.5°	554.0	554.0	562.1	566.2	562.1
30°	541.7	537.7	549.9	554.0	549.9
32.5°	529.5	525.4	537.7	541.7	537.7
35°	513.2	513.2	521.4	525.4	525.4
37.5°	496.9	496.9	505.1	509.1	525.4
40°	480.6	480.6	488.8	513.2	529.5
42.5°	460.3	460.3	472.5	509.1	529.5
45°	439.9	444.0	452.1	509.1	529.5
47.5°	419.5	423.6	444.0	505.1	521.4
50°	395.1	403.2	435.8	492.9	505.1
52.5°	374.7	378.8	423.6	472.5	472.5
55°	350.3	354.4	415.5	439.9	439.9
57.5°	325.9	329.9	395.1	403.2	403.2
60°	301.4	305.5	370.7	370.7	370.7
62.5°	272.9	281.0	334.0	338.1	338.1
65°	248.5	260.7	297.3	301.4	301.4
67.5°	220.0	240.3	264.8	268.8	268.8
70°	195.5	220.0	228.1	232.2	232.2
72.5°	167.0	191.4	195.5	199.6	199.6
75°	138.5	162.9	162.9	167.0	167.0
77.5°	110.0	130.3	134.4	134.4	134.4
80°	85.5	97.8	105.9	101.8	101.8
82.5°	61.1	77.4	77.4	77.4	73.3
85°	40.7	65.2	57.0	53.0	48.9
87.5°	24.4	57.0	32.6	28.5	28.5
90°	8.1	24.4	20.4	4.1	4.1
92.5°	16.3	40.7	20.4	16.3	12.2
95°	32.6	162.9	195.5	40.7	40.7
97.5°	61.1	272.9	419.5	496.9	533.6
100°	93.7	407.3	562.1	688.4	733.2
102.5°	134.4	492.9	692.4	851.3	916.5
105°	179.2	578.4	875.7	1010.1	1091.6
107.5°	224.0	643.6	1018.3	1169.0	1226.0
110°	277.0	696.5	1107.9	1368.6	1384.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	325.9	737.2	1156.8	1466.3	1556.0
115°	370.7	782.1	1230.1	1523.4	1617.1
117.5°	423.6	814.6	1274.9	1556.0	1657.8
120°	472.5	843.1	1307.5	1596.7	1670.0
122.5°	517.3	875.7	1331.9	1629.3	1710.7
125°	558.0	904.2	1348.2	1641.5	1723.0
127.5°	598.8	928.7	1352.3	1645.6	1731.1
130°	643.6	953.1	1360.4	1641.5	1727.0
132.5°	688.4	977.6	1356.4	1629.3	1706.7
135°	721.0	993.9	1348.2	1613.0	1682.2
137.5°	753.5	1006.1	1340.1	1588.5	1653.7
140°	782.1	1014.2	1327.9	1560.0	1621.1
142.5°	814.6	1018.3	1319.7	1531.5	1584.5
145°	843.1	1018.3	1307.5	1498.9	1547.8
147.5°	871.7	1014.2	1291.2	1466.3	1507.1
150°	892.0	1006.1	1274.9	1433.8	1466.3
152.5°	908.3	997.9	1254.5	1397.1	1429.7
155°	928.7	993.9	1230.1	1364.5	1389.0
157.5°	945.0	993.9	1201.6	1327.9	1352.3
160°	961.3	993.9	1169.0	1291.2	1311.6
162.5°	981.6	993.9	1124.2	1238.2	1258.6
165°	1002.0	997.9	1091.6	1185.3	1201.6
167.5°	1014.2	997.9	1059.0	1120.1	1136.4
170°	1022.4	1006.1	1030.5	1075.3	1079.4
172.5°	1026.4	1014.2	1010.1	1030.5	1030.5
175°	1026.4	1014.2	1010.1	1010.1	1002.0
177.5°	1026.4	1018.3	1018.3	1014.2	1002.0
180°	1018.3	1018.3	1018.3	1018.3	1018.3

(END OF REPORT)