

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: P253337

Luminaire Tested: **J3-FL-20L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-FL-20L830-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

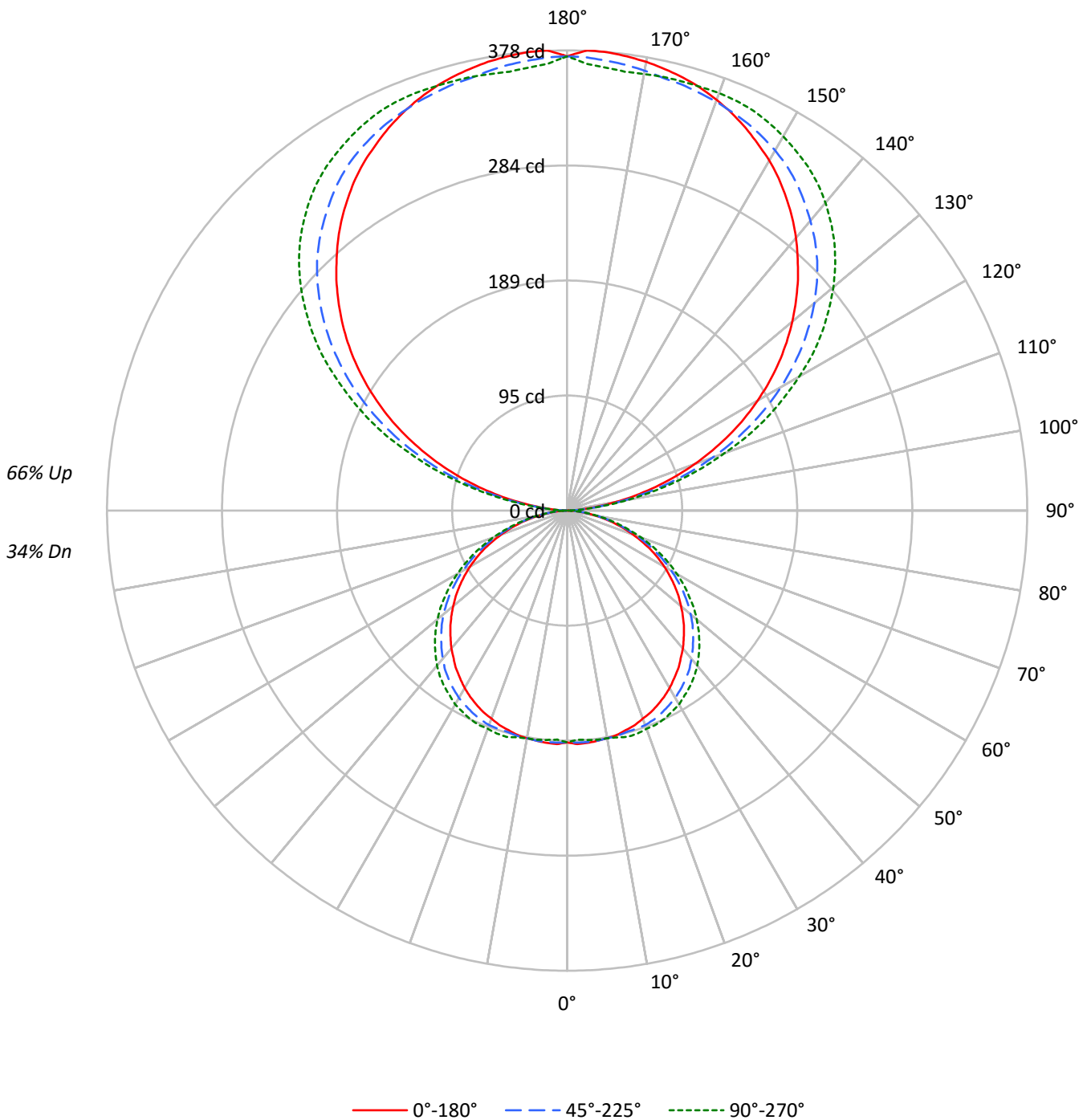
Lumens per Lamp: N/A
Luminaire Lumens: 1820.7 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 12.8
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



TEST NUMBER: P253337
CATALOG NUMBER: J3-FL-20L830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P253337

CATALOG NUMBER: J3-FL-20L830-1D-UNV-STD-W-4

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1537	1537	1537
5°	1553	1546	1532
10°	1557	1557	1557
15°	1560	1574	1609
20°	1562	1611	1639
25°	1569	1635	1682
30°	1570	1656	1714
35°	1566	1670	1736
40°	1559	1675	1753
45°	1549	1670	1754
50°	1533	1663	1744
55°	1517	1640	1719
60°	1490	1597	1682
65°	1444	1536	1624
70°	1360	1447	1522
75°	1248	1326	1388
80°	1083	1158	1199
85°	871	898	945



TEST NUMBER: P253337

CATALOG NUMBER: J3-FL-20L830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	1.0
10°-20°	53.4	2.9
20°-30°	84.1	4.6
30°-40°	105.1	5.8
40°-50°	112.0	6.2
50°-60°	103.3	5.7
60°-70°	79.3	4.4
70°-80°	45.0	2.5
80°-90°	11.8	0.6
90°-100°	19.1	1.0
100°-110°	89.8	4.9
110°-120°	162.8	8.9
120°-130°	209.1	11.5
130°-140°	222.5	12.2
140°-150°	204.7	11.2
150°-160°	162.1	8.9
160°-170°	102.9	5.7
170°-180°	35.3	1.9
0°-30°	155.7	8.6
0°-40°	260.8	14.3
0°-60°	476.2	26.2
0°-90°	612.3	33.6
90°-120°	271.8	14.9
90°-150°	908.1	49.9
90°-180°	1208.0	66.3
0°-180°	1820.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	190	190	190	190	190	
5°	192	190	191	190	189	18
15°	187	186	188	192	192	53
25°	176	176	184	187	189	81
35°	159	162	170	174	176	99
45°	136	139	146	151	154	105
55°	108	111	116	120	122	96
65°	76	77	80	83	85	75
75°	40	41	42	44	44	43
85°	9	10	10	10	10	11
90°	0	0	0	0	0	1
95°	13	13	14	15	16	16
105°	75	78	86	91	94	80
115°	147	153	166	176	181	145
125°	212	219	236	249	256	190
135°	268	272	290	303	311	207
145°	314	313	328	339	345	196
155°	347	342	351	358	362	160
165°	368	362	362	364	365	104
175°	378	374	371	368	365	36
180°	373	373	373	373	373	



TEST NUMBER: P253337

CATALOG NUMBER: J3-FL-20L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	190.4	190.4	190.4	190.4	190.4
2.5°	192.0	190.4	190.8	190.8	188.3
5°	191.6	189.9	190.8	190.4	189.1
7.5°	190.8	189.6	190.8	190.8	189.9
10°	189.9	188.8	189.9	190.4	189.9
12.5°	188.8	187.5	189.6	190.4	190.8
15°	186.7	185.9	188.3	191.6	192.5
17.5°	184.7	184.3	188.0	191.6	192.0
20°	181.8	181.8	187.5	190.4	190.8
22.5°	179.4	179.4	185.9	188.8	190.4
25°	176.1	176.5	183.5	187.2	188.8
27.5°	172.4	173.7	180.6	184.7	186.3
30°	168.4	170.4	177.7	181.8	183.9
32.5°	163.5	166.3	173.7	177.7	179.8
35°	158.9	161.8	169.5	173.7	176.1
37.5°	153.2	156.9	164.7	168.7	171.6
40°	147.9	151.6	158.9	163.5	166.3
42.5°	141.8	145.8	152.8	157.3	160.1
45°	135.7	139.3	146.3	150.8	153.6
47.5°	129.1	132.8	139.8	143.9	146.6
50°	122.1	126.2	132.4	136.5	138.9
52.5°	115.2	118.9	124.6	128.8	131.2
55°	107.8	111.1	116.5	120.2	122.1
57.5°	100.1	103.3	107.8	111.5	113.6
60°	92.3	94.8	98.9	102.5	104.2
62.5°	84.1	86.3	89.9	92.8	94.8
65°	75.6	77.2	80.4	83.3	85.0
67.5°	66.6	68.2	71.1	73.5	74.8
70°	57.6	59.2	61.3	63.3	64.5
72.5°	49.0	49.8	51.9	53.6	54.4
75°	40.0	40.8	42.5	44.1	44.5
77.5°	31.9	32.3	33.6	34.4	34.7
80°	23.3	24.1	24.9	25.3	25.8
82.5°	15.9	16.3	16.7	17.1	17.5
85°	9.4	9.7	9.7	10.2	10.2
87.5°	4.1	4.5	4.5	4.5	4.5
90°	0.4	0.4	0.4	0.0	0.0
92.5°	4.1	4.1	4.5	4.9	5.3
95°	12.6	13.1	14.3	15.1	15.9
97.5°	25.3	26.2	28.6	30.7	31.5
100°	40.8	42.5	46.2	49.0	50.3
102.5°	57.6	60.0	65.4	69.5	71.5
105°	75.2	78.5	85.8	91.1	93.6
107.5°	93.2	97.3	106.7	112.8	116.0
110°	111.1	116.5	126.7	134.8	137.3



TEST NUMBER: P253337

CATALOG NUMBER: J3-FL-20L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.1	134.8	147.1	156.1	160.6
115°	147.1	153.2	166.3	176.5	181.4
117.5°	164.3	170.8	185.1	196.6	201.0
120°	180.6	187.5	203.1	214.9	220.2
122.5°	196.9	203.5	219.8	232.4	239.1
125°	212.5	219.0	235.8	248.8	255.8
127.5°	227.2	233.2	250.9	264.3	270.9
130°	241.5	247.2	265.1	278.3	285.6
132.5°	255.0	260.3	278.3	290.9	298.7
135°	268.1	272.1	290.5	303.1	310.6
137.5°	280.3	283.2	301.2	313.8	320.8
140°	292.5	293.4	310.9	322.8	330.1
142.5°	303.6	303.1	319.9	331.3	338.3
145°	313.8	312.6	328.5	338.7	344.9
147.5°	323.6	320.8	335.8	344.5	350.2
150°	332.1	328.5	341.6	350.2	355.0
152.5°	339.5	335.4	346.5	354.2	359.1
155°	346.9	342.0	351.0	358.3	362.4
157.5°	353.4	347.3	354.2	360.8	364.1
160°	359.1	353.1	357.5	362.4	364.9
162.5°	364.1	357.9	360.0	362.8	364.9
165°	368.2	362.4	362.4	363.6	364.9
167.5°	371.4	366.5	364.1	364.5	364.9
170°	374.3	369.3	366.9	364.5	364.1
172.5°	376.3	371.4	369.3	366.1	363.6
175°	377.9	373.5	370.9	368.2	365.3
177.5°	378.4	374.6	372.6	369.8	367.3
180°	373.1	373.1	373.1	373.1	373.1

(END OF REPORT)