

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: P253319

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253319
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-20L830-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

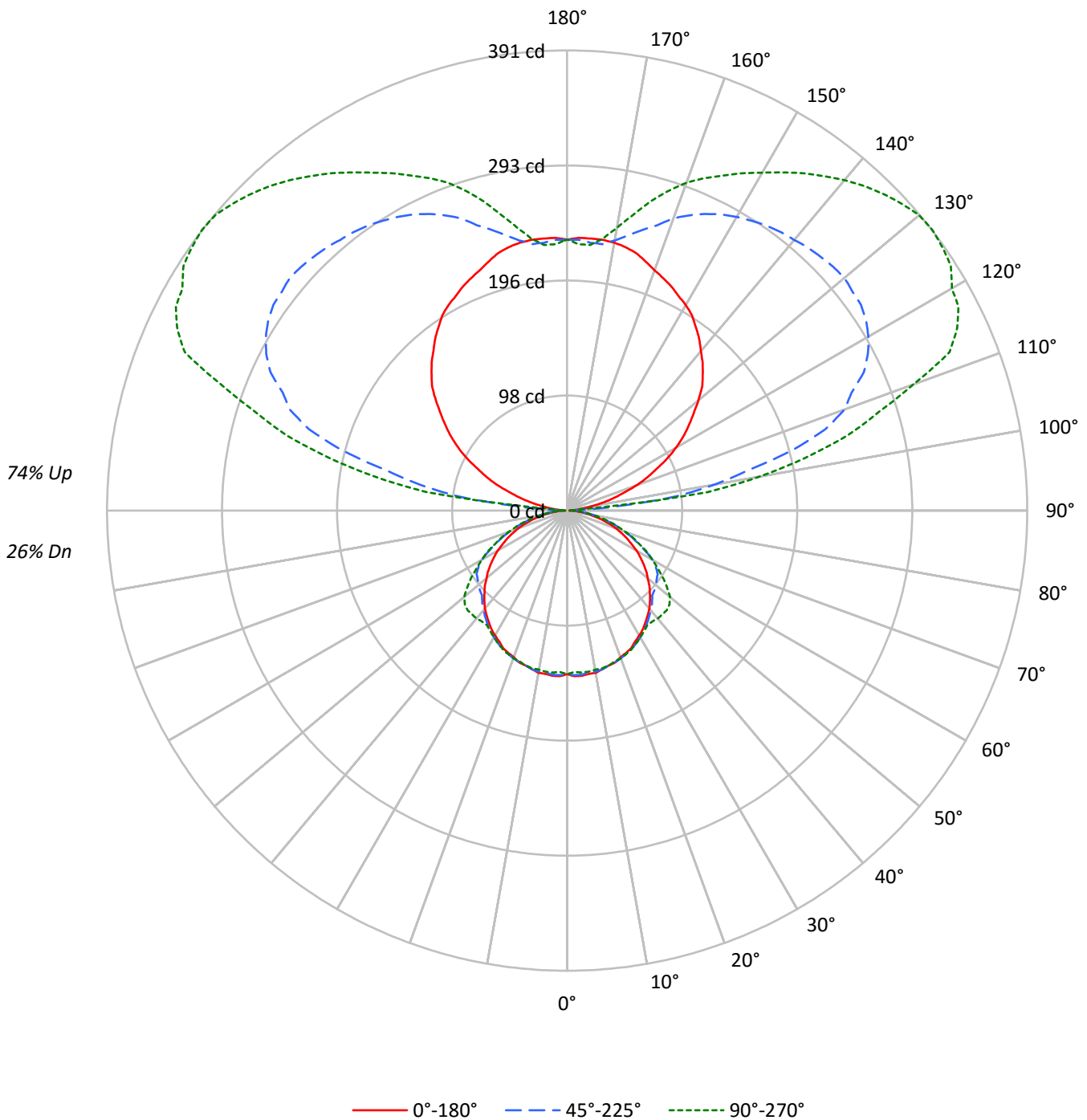
Lumens per Lamp: N/A
Luminaire Lumens: 1819.4 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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



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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°	1122	1122	1122
5°	1142	1135	1119
10°	1148	1139	1125
15°	1139	1139	1139
20°	1139	1147	1147
25°	1148	1156	1156
30°	1142	1159	1159
35°	1143	1162	1171
40°	1146	1165	1261
45°	1135	1167	1367
50°	1122	1237	1434
55°	1115	1322	1399
60°	1100	1353	1353
65°	1074	1284	1301
70°	1043	1218	1239
75°	976	1148	1179
80°	897	1111	1069
85°	852	1195	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.7
10°-20°	38.5	2.1
20°-30°	59.5	3.3
30°-40°	73.8	4.1
40°-50°	82.6	4.5
50°-60°	80.7	4.4
60°-70°	63.6	3.5
70°-80°	38.5	2.1
80°-90°	13.7	0.8
90°-100°	47.3	2.6
100°-110°	182.8	10.0
110°-120°	251.2	13.8
120°-130°	254.1	14.0
130°-140°	225.2	12.4
140°-150°	178.1	9.8
150°-160°	124.4	6.8
160°-170°	70.4	3.9
170°-180°	22.1	1.2
0°-30°	111.2	6.1
0°-40°	185.0	10.2
0°-60°	348.2	19.1
0°-90°	464.0	25.5
90°-120°	481.2	26.4
90°-150°	1138.6	62.6
90°-180°	1355.0	74.5
0°-180°	1819.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	139	139	139	139	139	
5°	141	139	140	139	138	13
15°	136	135	136	136	136	39
25°	129	127	130	130	130	59
35°	116	116	118	119	119	73
45°	99	100	102	115	120	77
55°	79	80	94	99	99	71
65°	56	59	67	68	68	55
75°	31	37	37	38	38	33
85°	9	15	13	12	11	10
90°	2	6	5	1	1	2
95°	7	37	44	9	9	9
105°	40	131	198	228	247	43
115°	84	177	278	344	366	84
125°	126	204	305	371	390	113
135°	163	225	305	365	380	126
145°	191	230	296	339	350	119
155°	210	225	278	308	314	97
165°	226	226	247	268	272	64
175°	232	229	228	228	226	22
180°	230	230	230	230	230	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	139.0	139.0	139.0	139.0	139.0
2.5°	140.9	139.0	140.0	139.0	137.2
5°	140.9	139.0	140.0	139.0	138.1
7.5°	140.0	139.0	139.0	138.1	138.1
10°	140.0	138.1	139.0	138.1	137.2
12.5°	138.1	137.2	138.1	137.2	137.2
15°	136.3	135.4	136.3	136.3	136.3
17.5°	135.4	133.5	135.4	135.4	134.4
20°	132.6	131.7	133.5	133.5	133.5
22.5°	130.8	129.8	131.7	131.7	131.7
25°	128.9	127.1	129.8	129.8	129.8
27.5°	125.2	125.2	127.1	128.0	127.1
30°	122.5	121.5	124.3	125.2	124.3
32.5°	119.7	118.8	121.5	122.5	121.5
35°	116.0	116.0	117.9	118.8	118.8
37.5°	112.3	112.3	114.2	115.1	118.8
40°	108.7	108.7	110.5	116.0	119.7
42.5°	104.1	104.1	106.8	115.1	119.7
45°	99.4	100.4	102.2	115.1	119.7
47.5°	94.8	95.8	100.4	114.2	117.9
50°	89.3	91.2	98.5	111.4	114.2
52.5°	84.7	85.6	95.8	106.8	106.8
55°	79.2	80.1	93.9	99.4	99.4
57.5°	73.7	74.6	89.3	91.2	91.2
60°	68.1	69.1	83.8	83.8	83.8
62.5°	61.7	63.5	75.5	76.4	76.4
65°	56.2	58.9	67.2	68.1	68.1
67.5°	49.7	54.3	59.9	60.8	60.8
70°	44.2	49.7	51.6	52.5	52.5
72.5°	37.8	43.3	44.2	45.1	45.1
75°	31.3	36.8	36.8	37.8	37.8
77.5°	24.9	29.5	30.4	30.4	30.4
80°	19.3	22.1	23.9	23.0	23.0
82.5°	13.8	17.5	17.5	17.5	16.6
85°	9.2	14.7	12.9	12.0	11.0
87.5°	5.5	12.9	7.4	6.4	6.4
90°	1.8	5.5	4.6	0.9	0.9
92.5°	3.7	9.2	4.6	3.7	2.8
95°	7.4	36.8	44.2	9.2	9.2
97.5°	13.8	61.7	94.8	112.3	120.6
100°	21.2	92.1	127.1	155.6	165.7
102.5°	30.4	111.4	156.5	192.5	207.2
105°	40.5	130.8	198.0	228.4	246.8
107.5°	50.6	145.5	230.2	264.3	277.2
110°	62.6	157.5	250.5	309.4	313.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.7	166.7	261.5	331.5	351.8
115°	83.8	176.8	278.1	344.4	365.6
117.5°	95.8	184.2	288.2	351.8	374.8
120°	106.8	190.6	295.6	361.0	377.5
122.5°	116.9	198.0	301.1	368.3	386.7
125°	126.2	204.4	304.8	371.1	389.5
127.5°	135.4	209.9	305.7	372.0	391.4
130°	145.5	215.5	307.6	371.1	390.4
132.5°	155.6	221.0	306.6	368.3	385.8
135°	163.0	224.7	304.8	364.6	380.3
137.5°	170.4	227.4	303.0	359.1	373.9
140°	176.8	229.3	300.2	352.7	366.5
142.5°	184.2	230.2	298.3	346.2	358.2
145°	190.6	230.2	295.6	338.9	349.9
147.5°	197.1	229.3	291.9	331.5	340.7
150°	201.7	227.4	288.2	324.1	331.5
152.5°	205.3	225.6	283.6	315.8	323.2
155°	209.9	224.7	278.1	308.5	314.0
157.5°	213.6	224.7	271.6	300.2	305.7
160°	217.3	224.7	264.3	291.9	296.5
162.5°	221.9	224.7	254.1	279.9	284.5
165°	226.5	225.6	246.8	268.0	271.6
167.5°	229.3	225.6	239.4	253.2	256.9
170°	231.1	227.4	233.0	243.1	244.0
172.5°	232.0	229.3	228.4	233.0	233.0
175°	232.0	229.3	228.4	228.4	226.5
177.5°	232.0	230.2	230.2	229.3	226.5
180°	230.2	230.2	230.2	230.2	230.2

(END OF REPORT)