

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: P253331

Luminaire Tested: **J3-CL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253331
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-20L840-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

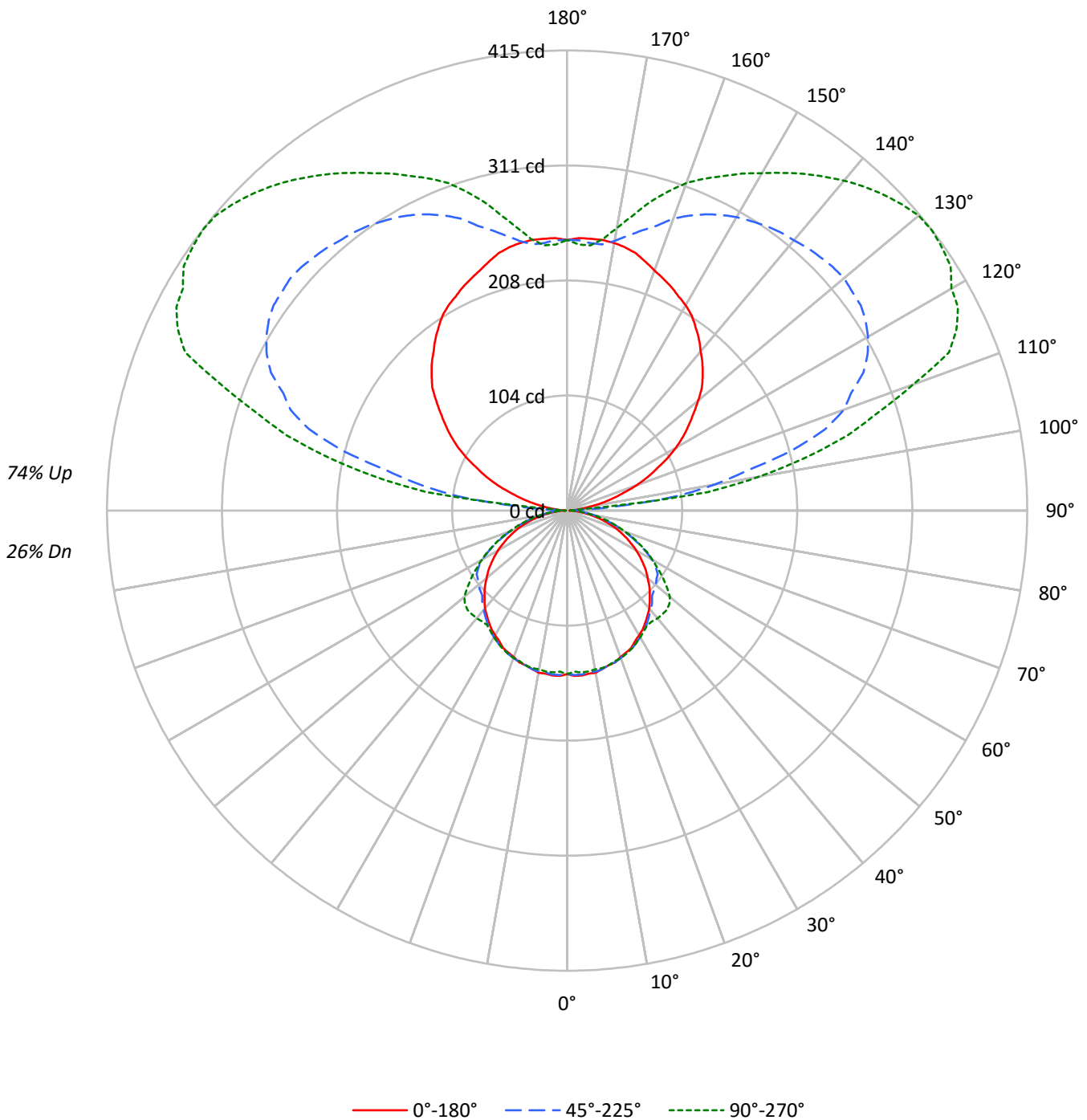
Lumens per Lamp: N/A
Luminaire Lumens: 1928.6 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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°	1190	1190	1190
5°	1210	1203	1186
10°	1217	1208	1192
15°	1208	1208	1208
20°	1208	1216	1216
25°	1218	1226	1226
30°	1210	1229	1229
35°	1212	1231	1241
40°	1214	1234	1337
45°	1203	1236	1449
50°	1189	1311	1520
55°	1181	1402	1483
60°	1166	1434	1434
65°	1137	1362	1379
70°	1107	1291	1312
75°	1036	1216	1248
80°	953	1181	1134
85°	908	1269	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.7
10°-20°	40.8	2.1
20°-30°	63.0	3.3
30°-40°	78.2	4.1
40°-50°	87.5	4.5
50°-60°	85.5	4.4
60°-70°	67.4	3.5
70°-80°	40.8	2.1
80°-90°	14.5	0.8
90°-100°	50.1	2.6
100°-110°	193.7	10.0
110°-120°	266.2	13.8
120°-130°	269.3	14.0
130°-140°	238.7	12.4
140°-150°	188.8	9.8
150°-160°	131.8	6.8
160°-170°	74.6	3.9
170°-180°	23.4	1.2
0°-30°	117.9	6.1
0°-40°	196.1	10.2
0°-60°	369.1	19.1
0°-90°	491.8	25.5
90°-120°	510.1	26.4
90°-150°	1206.9	62.6
90°-180°	1437.0	74.5
0°-180°	1928.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	147	147	147	147	147	
5°	149	147	148	147	146	14
15°	144	144	144	144	144	41
25°	137	135	138	138	138	63
35°	123	123	125	126	126	77
45°	105	106	108	122	127	81
55°	84	85	100	105	105	75
65°	60	62	71	72	72	59
75°	33	39	39	40	40	35
85°	10	16	14	13	12	10
90°	2	6	5	1	1	2
95°	8	39	47	10	10	10
105°	43	139	210	242	262	46
115°	89	187	295	365	388	89
125°	134	217	323	393	413	120
135°	173	238	323	386	403	133
145°	202	244	313	359	371	126
155°	222	238	295	327	333	103
165°	240	239	262	284	288	68
175°	246	243	242	242	240	23
180°	244	244	244	244	244	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	147.4	147.4	147.4	147.4	147.4
2.5°	149.3	147.4	148.4	147.4	145.4
5°	149.3	147.4	148.4	147.4	146.4
7.5°	148.4	147.4	147.4	146.4	146.4
10°	148.4	146.4	147.4	146.4	145.4
12.5°	146.4	145.4	146.4	145.4	145.4
15°	144.5	143.5	144.5	144.5	144.5
17.5°	143.5	141.5	143.5	143.5	142.5
20°	140.6	139.6	141.5	141.5	141.5
22.5°	138.6	137.6	139.6	139.6	139.6
25°	136.7	134.7	137.6	137.6	137.6
27.5°	132.7	132.7	134.7	135.7	134.7
30°	129.8	128.8	131.8	132.7	131.8
32.5°	126.9	125.9	128.8	129.8	128.8
35°	123.0	123.0	124.9	125.9	125.9
37.5°	119.1	119.1	121.0	122.0	125.9
40°	115.2	115.2	117.1	123.0	126.9
42.5°	110.3	110.3	113.2	122.0	126.9
45°	105.4	106.4	108.3	122.0	126.9
47.5°	100.5	101.5	106.4	121.0	124.9
50°	94.7	96.6	104.4	118.1	121.0
52.5°	89.8	90.8	101.5	113.2	113.2
55°	83.9	84.9	99.6	105.4	105.4
57.5°	78.1	79.1	94.7	96.6	96.6
60°	72.2	73.2	88.8	88.8	88.8
62.5°	65.4	67.3	80.0	81.0	81.0
65°	59.5	62.5	71.3	72.2	72.2
67.5°	52.7	57.6	63.4	64.4	64.4
70°	46.9	52.7	54.7	55.6	55.6
72.5°	40.0	45.9	46.9	47.8	47.8
75°	33.2	39.0	39.0	40.0	40.0
77.5°	26.4	31.2	32.2	32.2	32.2
80°	20.5	23.4	25.4	24.4	24.4
82.5°	14.6	18.5	18.5	18.5	17.6
85°	9.8	15.6	13.7	12.7	11.7
87.5°	5.9	13.7	7.8	6.8	6.8
90°	2.0	5.9	4.9	1.0	1.0
92.5°	3.9	9.8	4.9	3.9	2.9
95°	7.8	39.0	46.9	9.8	9.8
97.5°	14.6	65.4	100.5	119.1	127.9
100°	22.4	97.6	134.7	165.0	175.7
102.5°	32.2	118.1	165.9	204.0	219.6
105°	42.9	138.6	209.9	242.1	261.6
107.5°	53.7	154.2	244.0	280.1	293.8
110°	66.4	166.9	265.5	328.0	331.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	78.1	176.7	277.2	351.4	372.9
115°	88.8	187.4	294.8	365.1	387.5
117.5°	101.5	195.2	305.5	372.9	397.3
120°	113.2	202.0	313.3	382.6	400.2
122.5°	124.0	209.9	319.2	390.4	410.0
125°	133.7	216.7	323.1	393.4	412.9
127.5°	143.5	222.5	324.1	394.3	414.8
130°	154.2	228.4	326.0	393.4	413.9
132.5°	165.0	234.3	325.0	390.4	409.0
135°	172.8	238.2	323.1	386.5	403.1
137.5°	180.6	241.1	321.1	380.7	396.3
140°	187.4	243.0	318.2	373.8	388.5
142.5°	195.2	244.0	316.2	367.0	379.7
145°	202.0	244.0	313.3	359.2	370.9
147.5°	208.9	243.0	309.4	351.4	361.1
150°	213.8	241.1	305.5	343.6	351.4
152.5°	217.7	239.1	300.6	334.8	342.6
155°	222.5	238.2	294.8	327.0	332.8
157.5°	226.4	238.2	287.9	318.2	324.1
160°	230.4	238.2	280.1	309.4	314.3
162.5°	235.2	238.2	269.4	296.7	301.6
165°	240.1	239.1	261.6	284.0	287.9
167.5°	243.0	239.1	253.8	268.4	272.3
170°	245.0	241.1	246.9	257.7	258.7
172.5°	246.0	243.0	242.1	246.9	246.9
175°	246.0	243.0	242.1	242.1	240.1
177.5°	246.0	244.0	244.0	243.0	240.1
180°	244.0	244.0	244.0	244.0	244.0

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