

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519718

Luminaire Tested: **SQ4-100U-0D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519718  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-100U-0D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

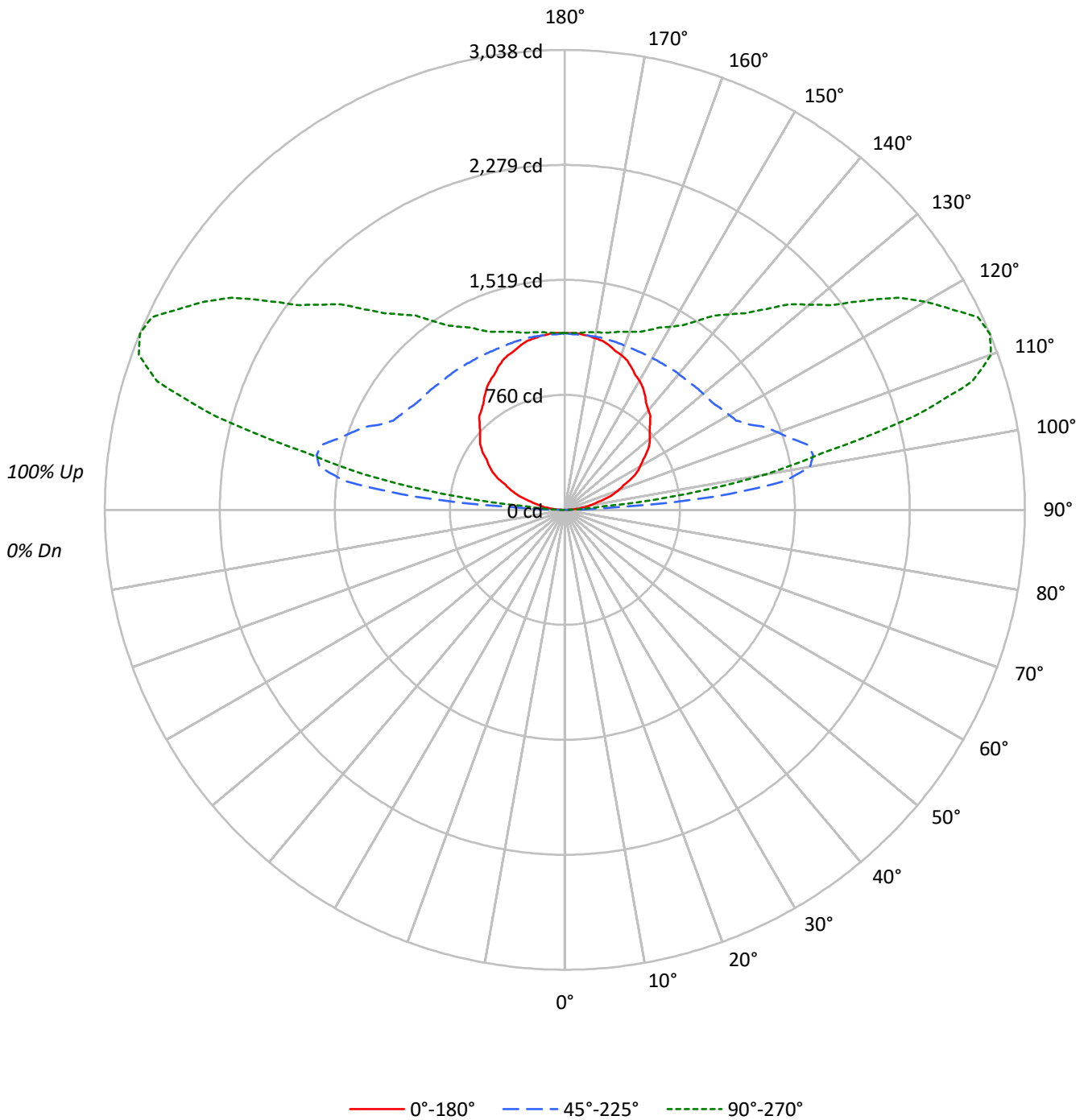
Lumens per Lamp: N/A  
Luminaire Lumens: 7581.9 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Indirect

Input Watts (W): 49.5  
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: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0		
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0		
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0		
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0		
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0		
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0		
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0		
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0		
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0		
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0		
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
95°	4250	52474	14032
100°	4564	43698	35760
105°	4793	29584	42529
110°	5086	20171	40392
115°	5258	14592	32852
120°	5306	11559	25356
125°	5315	9745	19356
130°	5253	8562	15128
135°	5189	7686	12217
140°	5172	7049	10142
145°	5194	6551	8569
150°	5251	6166	7439
155°	5293	5873	6662
160°	5344	5674	6141
165°	5377	5537	5796
170°	5396	5440	5580
175°	5404	5378	5438



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	546.5	7.2
100°-110°	1508.6	19.9
110°-120°	1555.9	20.5
120°-130°	1250.3	16.5
130°-140°	982.6	13.0
140°-150°	753.6	9.9
150°-160°	541.6	7.1
160°-170°	331.2	4.4
170°-180°	111.7	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	3611.0	47.6
90°-150°	6597.5	87.0
90°-180°	7582.0	100.0
0°-180°	7581.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
90°	4	7	15	17	19	
95°	80	296	991	408	265	91
105°	269	415	1660	2534	2386	286
115°	482	582	1337	2646	3010	473
125°	661	752	1212	2051	2407	588
135°	795	881	1178	1661	1873	615
145°	922	986	1163	1414	1522	577
155°	1040	1075	1154	1269	1309	479
165°	1126	1140	1159	1204	1214	317
175°	1167	1169	1161	1178	1174	111
180°	1167	1167	1167	1167	1167	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
90°	3.7	7.4	14.9	16.8	18.7
92.5°	33.6	139.5	249.4	91.0	70.9
95°	80.3	295.7	991.4	407.5	265.1
97.5°	132.9	331.2	1468.6	1130.7	818.9
100°	171.8	352.5	1644.9	1656.5	1346.1
102.5°	209.1	376.7	1679.2	2046.7	1752.4
105°	268.9	414.9	1659.8	2534.0	2386.1
107.5°	332.3	462.3	1567.2	2768.9	2823.0
110°	377.1	494.0	1495.5	2819.5	2994.7
112.5°	417.5	529.9	1428.3	2779.6	3038.1
115°	481.7	582.1	1336.8	2646.4	3009.7
117.5°	537.7	637.8	1276.7	2459.0	2872.3
120°	575.1	673.6	1252.8	2332.1	2748.3
122.5°	610.9	705.1	1233.4	2213.6	2607.9
125°	660.9	752.2	1211.7	2050.6	2406.6
127.5°	703.5	794.8	1199.0	1912.9	2219.9
130°	731.9	823.2	1193.0	1828.6	2107.9
132.5°	758.8	845.7	1187.1	1757.8	2010.8
135°	795.4	881.2	1178.1	1660.9	1872.7
137.5°	836.4	914.6	1173.6	1579.5	1760.3
140°	858.8	935.5	1170.6	1525.3	1684.1
142.5°	884.2	955.1	1167.7	1477.0	1616.9
145°	922.3	986.2	1163.2	1413.9	1521.6
147.5°	958.9	1014.8	1159.1	1360.7	1444.3
150°	985.8	1031.4	1157.6	1329.0	1396.6
152.5°	1006.7	1049.4	1156.1	1301.9	1357.7
155°	1039.9	1074.6	1153.8	1268.6	1308.8
157.5°	1070.6	1097.2	1154.2	1244.5	1271.8
160°	1088.5	1112.2	1155.7	1230.8	1250.9
162.5°	1103.4	1124.2	1157.2	1218.8	1234.5
165°	1125.8	1140.4	1159.4	1204.5	1213.6
167.5°	1143.0	1151.8	1161.3	1195.7	1198.6
170°	1152.0	1159.3	1161.3	1191.2	1191.2
172.5°	1159.4	1163.8	1161.3	1185.2	1183.7
175°	1166.9	1168.7	1161.3	1178.0	1174.4
177.5°	1169.9	1168.4	1160.9	1171.3	1168.4
180°	1166.9	1166.9	1166.9	1166.9	1166.9

(END OF REPORT)