

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: P563880

Luminaire Tested: **SQ4-PR1-025U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563880  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7645.6 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

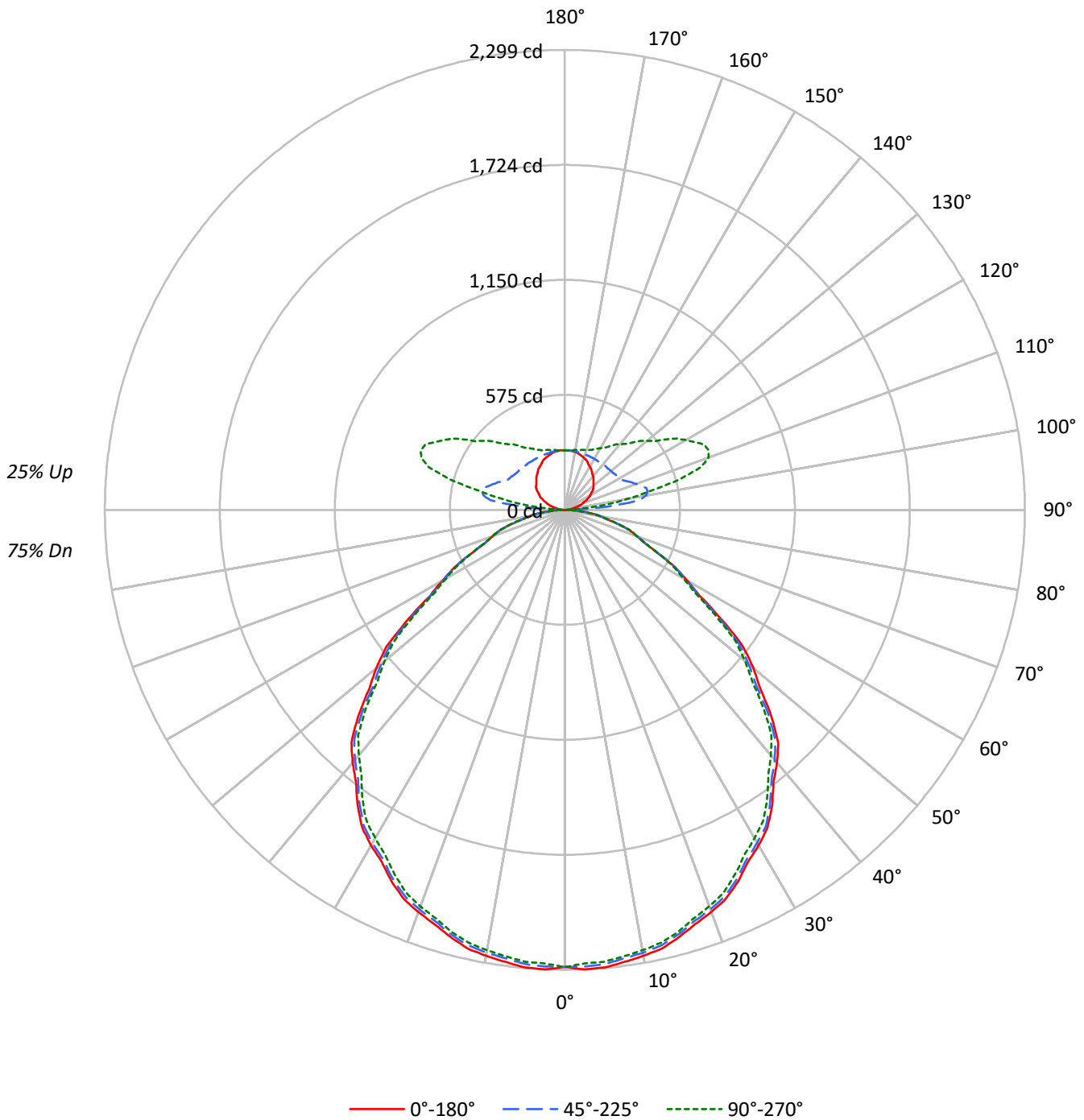
Input Watts (W): 64.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

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

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9527	9361	9167
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5628	5585
70°	5150	5177	5177
75°	4946	4946	4982
80°	4654	4705	4654
85°	3753	4166	4166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.1	2.8
10°-20°	618.2	8.1
20°-30°	932.5	12.2
30°-40°	1111.0	14.5
40°-50°	1095.4	14.3
50°-60°	837.2	10.9
60°-70°	518.1	6.8
70°-80°	294.3	3.8
80°-90°	91.1	1.2
90°-100°	145.3	1.9
100°-110°	381.9	5.0
110°-120°	396.0	5.2
120°-130°	317.6	4.2
130°-140°	249.2	3.3
140°-150°	191.3	2.5
150°-160°	137.8	1.8
160°-170°	84.3	1.1
170°-180°	28.5	0.4
0°-30°	1766.8	23.1
0°-40°	2877.8	37.6
0°-60°	4810.4	62.9
0°-90°	5713.8	74.7
90°-120°	923.2	12.1
90°-150°	1681.3	22.0
90°-180°	1932.0	25.3
0°-180°	7645.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2297	2272	2279	2271	2267	218
15°	2210	2187	2196	2188	2185	624
25°	2049	2024	2035	2013	2011	943
35°	1805	1784	1789	1765	1763	1126
45°	1460	1441	1435	1409	1405	1119
55°	956	941	935	919	915	857
65°	514	510	516	512	512	520
75°	278	278	278	280	280	293
85°	71	75	79	79	79	82
90°	2	6	15	8	8	4
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2285.0	2285.0	2285.0	2285.0	2285.0
2.5°	2299.2	2279.1	2285.0	2280.0	2269.2
5°	2296.8	2271.8	2279.1	2271.1	2267.3
7.5°	2279.1	2254.5	2261.8	2253.8	2251.5
10°	2263.3	2240.2	2247.6	2239.6	2235.8
12.5°	2246.0	2221.4	2230.3	2220.7	2216.9
15°	2210.2	2187.1	2196.4	2188.5	2184.6
17.5°	2170.8	2146.2	2155.5	2146.3	2141.3
20°	2139.3	2116.3	2125.6	2111.7	2109.8
22.5°	2104.7	2081.6	2090.9	2072.4	2072.0
25°	2048.8	2023.8	2035.0	2013.3	2011.4
27.5°	1982.3	1959.2	1968.5	1946.4	1944.1
30°	1936.6	1913.5	1922.9	1899.1	1895.3
32.5°	1884.7	1863.1	1870.9	1847.2	1844.9
35°	1804.8	1783.6	1789.0	1765.4	1763.4
37.5°	1713.8	1694.6	1697.7	1671.7	1669.8
40°	1649.3	1630.0	1631.6	1604.0	1602.0
42.5°	1578.4	1559.2	1557.6	1530.0	1528.0
45°	1460.3	1441.1	1434.8	1409.1	1405.2
47.5°	1325.7	1306.5	1294.6	1273.7	1271.0
50°	1228.1	1208.9	1198.6	1180.7	1175.0
52.5°	1122.6	1103.4	1094.7	1078.4	1072.6
55°	956.5	941.1	934.9	919.0	915.2
57.5°	798.7	788.3	786.5	771.1	769.5
60°	702.6	696.8	696.7	682.9	682.9
62.5°	620.7	616.5	619.6	610.5	608.9
65°	513.7	509.8	515.6	511.7	511.7
67.5°	429.1	429.1	432.6	431.0	431.0
70°	381.8	381.8	383.8	383.8	383.8
72.5°	339.3	337.8	342.8	342.8	341.3
75°	277.5	277.5	277.5	279.5	279.5
77.5°	216.1	216.5	218.1	217.6	216.1
80°	175.2	177.1	177.1	175.2	175.2
82.5°	134.2	136.2	136.2	135.8	134.2
85°	70.9	74.7	78.7	78.7	78.7
87.5°	20.9	27.8	34.5	33.0	31.4
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)