

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: P564537

Luminaire Tested: **SQ4-PW1-025U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564537  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-025U-050D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7545.7 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

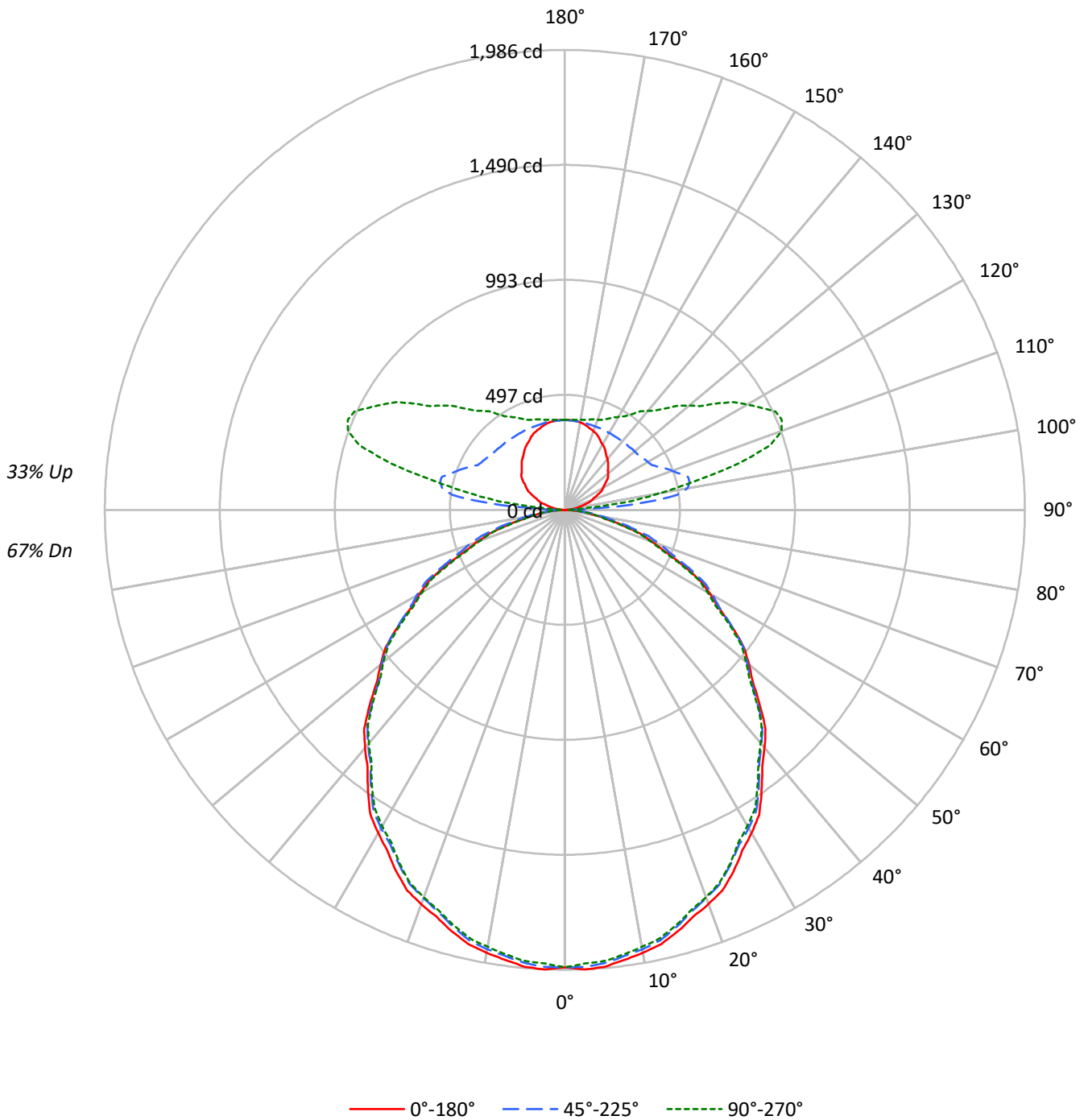
Input Watts (W): 68.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5935	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5561	5482	5449
40°	5387	5303	5282
45°	5177	5110	5086
50°	4963	4921	4888
55°	4731	4731	4657
60°	4443	4528	4368
65°	4066	4268	3964
70°	3583	3928	3490
75°	3061	3516	2978
80°	2373	2959	2405
85°	1535	2272	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	2.5
10°-20°	525.2	7.0
20°-30°	779.0	10.3
30°-40°	911.5	12.1
40°-50°	907.4	12.0
50°-60°	783.6	10.4
60°-70°	564.1	7.5
70°-80°	295.8	3.9
80°-90°	75.4	1.0
90°-100°	189.3	2.5
100°-110°	497.7	6.6
110°-120°	516.1	6.8
120°-130°	414.0	5.5
130°-140°	324.8	4.3
140°-150°	249.3	3.3
150°-160°	179.6	2.4
160°-170°	109.9	1.5
170°-180°	37.1	0.5
0°-30°	1490.1	19.7
0°-40°	2401.6	31.8
0°-60°	4092.6	54.2
0°-90°	5027.9	66.6
90°-120°	1203.2	15.9
90°-150°	2191.3	29.0
90°-180°	2518.0	33.4
0°-180°	7545.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1981	1958	1965	1960	1956	188
15°	1885	1861	1864	1860	1857	531
25°	1723	1694	1692	1681	1686	792
35°	1481	1461	1460	1446	1452	926
45°	1190	1180	1175	1171	1170	918
55°	882	881	882	870	868	787
65°	559	576	586	564	545	554
75°	258	281	296	276	251	276
85°	44	57	64	61	57	57
90°	2	7	20	10	10	4
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1986.5	1970.1	1975.3	1971.0	1961.4
5°	1980.6	1958.4	1964.9	1959.6	1956.2
7.5°	1960.4	1940.0	1944.7	1939.1	1937.1
10°	1942.3	1921.9	1926.6	1919.6	1916.2
12.5°	1921.4	1899.6	1904.3	1897.3	1895.3
15°	1884.8	1861.0	1864.0	1860.4	1857.0
17.5°	1842.4	1818.2	1818.7	1813.1	1812.4
20°	1811.7	1786.2	1783.9	1777.0	1780.4
22.5°	1778.3	1751.4	1749.1	1739.5	1744.2
25°	1723.0	1694.1	1691.7	1681.3	1686.4
27.5°	1658.9	1630.4	1630.4	1615.9	1621.3
30°	1611.6	1584.4	1587.2	1570.0	1576.8
32.5°	1561.5	1537.0	1538.5	1521.3	1528.1
35°	1481.1	1460.7	1460.2	1446.4	1451.5
37.5°	1398.9	1380.9	1378.0	1370.1	1371.4
40°	1341.8	1326.5	1321.0	1315.7	1315.7
42.5°	1282.0	1268.0	1262.5	1258.6	1257.3
45°	1190.4	1180.2	1174.8	1171.2	1169.5
47.5°	1099.9	1090.4	1085.7	1083.2	1081.5
50°	1037.3	1030.5	1028.6	1023.3	1021.6
52.5°	974.6	970.5	968.7	962.0	960.3
55°	882.4	880.7	882.4	870.2	868.5
57.5°	786.3	789.0	794.7	778.2	774.1
60°	722.3	729.1	736.2	716.9	710.1
62.5°	656.8	667.7	677.7	655.6	646.0
65°	558.7	575.7	586.5	563.5	544.7
67.5°	464.0	485.1	498.1	473.3	452.2
70°	398.5	422.4	436.8	411.9	388.1
72.5°	341.5	368.0	379.8	356.2	332.4
75°	257.6	281.4	295.9	276.1	250.6
77.5°	182.7	205.2	217.2	200.0	178.9
80°	134.0	157.8	167.1	152.8	135.8
82.5°	95.0	114.8	121.1	112.5	100.9
85°	43.5	57.1	64.4	60.8	57.4
87.5°	11.6	22.1	30.4	28.5	29.8
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)