

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: P561794

Luminaire Tested: **SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561794  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5098.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

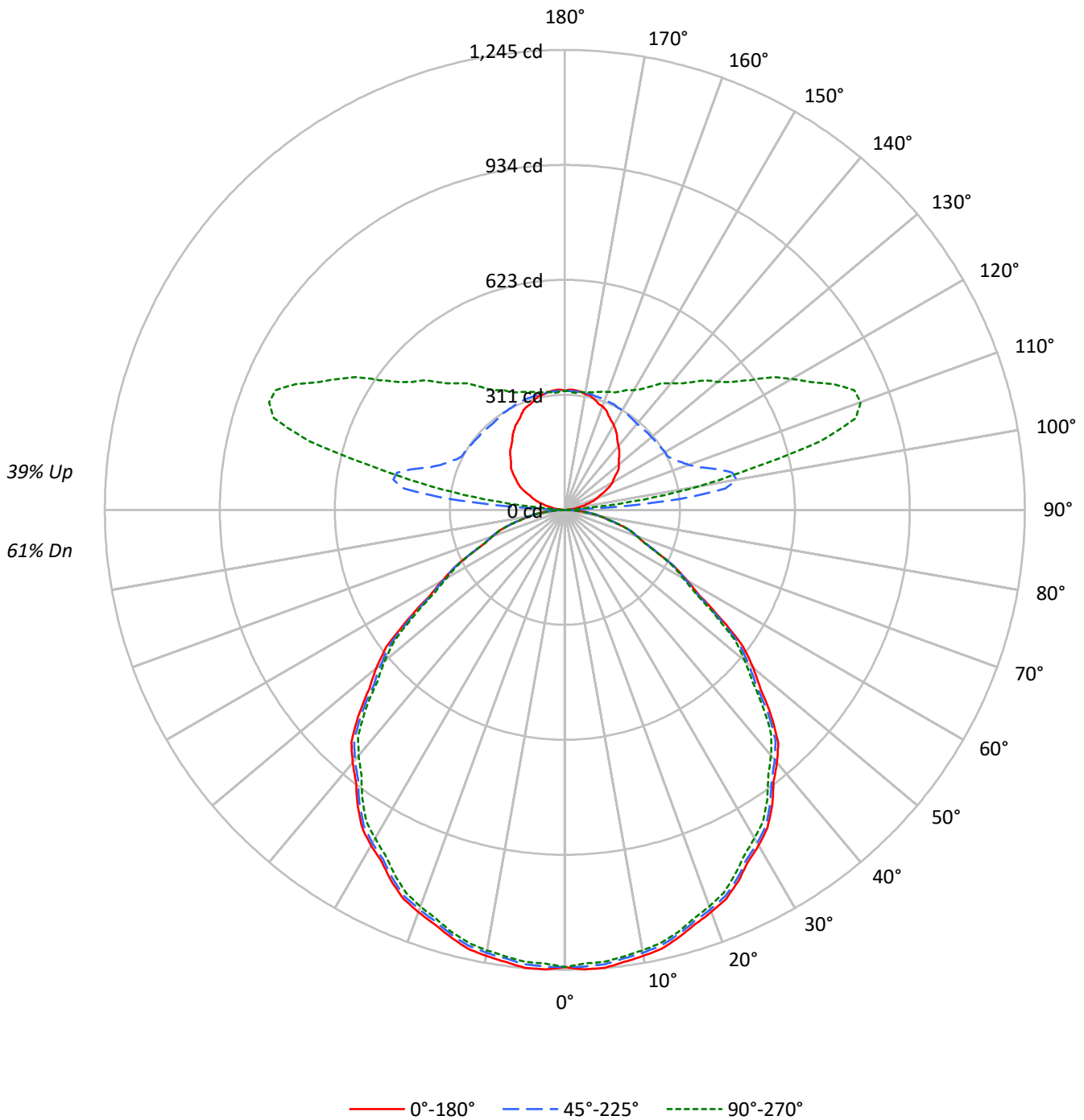
Input Watts (W): 45.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P561794

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P561794

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)

**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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	56	56	56	52	
2	92	84	78	73	86	79	74	69	70	65	62	61	58	55	52	50	48	48	48	48	44	
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	41	41	41	41	38	
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	36	36	36	33	
5	71	59	51	45	66	56	49	43	49	44	39	43	39	35	38	34	31	31	31	31	28	
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28	28	28	28	25	
7	61	48	40	35	57	46	38	33	41	35	30	36	31	27	31	28	25	25	25	25	22	
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	22	22	22	20	
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	20	20	20	18	
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	18	18	18	16	

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

	0°	45°	90°
0°	11419	11419	11419
5°	11522	11433	11374
10°	11485	11405	11345
15°	11435	11364	11302
20°	11377	11304	11220
25°	11297	11221	11091
30°	11176	11096	10937
35°	11011	10914	10759
40°	10759	10643	10452
45°	10321	10139	9931
50°	9548	9318	9135
55°	8334	8146	7974
60°	7023	6964	6826
65°	6073	6097	6052
70°	5579	5608	5608
75°	5358	5358	5397
80°	5042	5095	5042
85°	4065	4510	4510



TEST NUMBER: P561794

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	2.3
10°-20°	334.9	6.6
20°-30°	505.1	9.9
30°-40°	601.8	11.8
40°-50°	593.3	11.6
50°-60°	453.5	8.9
60°-70°	280.6	5.5
70°-80°	159.4	3.1
80°-90°	48.5	1.0
90°-100°	147.0	2.9
100°-110°	418.3	8.2
110°-120°	400.8	7.9
120°-130°	317.2	6.2
130°-140°	254.6	5.0
140°-150°	199.3	3.9
150°-160°	145.8	2.9
160°-170°	90.3	1.8
170°-180°	30.7	0.6
0°-30°	957.0	18.8
0°-40°	1558.8	30.6
0°-60°	2605.6	51.1
0°-90°	3094.0	60.7
90°-120°	966.1	18.9
90°-150°	1737.2	34.1
90°-180°	2004.0	39.3
0°-180°	5098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1244	1230	1234	1230	1228	118
15°	1197	1185	1190	1185	1183	338
25°	1110	1096	1102	1090	1090	511
35°	978	966	969	956	955	610
45°	791	781	777	763	761	606
55°	518	510	506	498	496	464
65°	278	276	279	277	277	282
75°	150	150	150	151	151	159
85°	38	40	43	43	43	45
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

TEST NUMBER: P561794

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1237.7	1237.7	1237.7	1237.7	1237.7
2.5°	1245.3	1234.5	1237.7	1235.0	1229.1
5°	1244.1	1230.5	1234.5	1230.2	1228.1
7.5°	1234.5	1221.1	1225.1	1220.8	1219.5
10°	1225.9	1213.4	1217.4	1213.1	1211.0
12.5°	1216.6	1203.2	1208.0	1202.9	1200.8
15°	1197.2	1184.6	1189.7	1185.4	1183.3
17.5°	1175.8	1162.5	1167.5	1162.6	1159.8
20°	1158.8	1146.3	1151.3	1143.8	1142.8
22.5°	1140.0	1127.5	1132.6	1122.5	1122.3
25°	1109.7	1096.2	1102.3	1090.5	1089.5
27.5°	1073.7	1061.2	1066.2	1054.3	1053.0
30°	1049.0	1036.5	1041.5	1028.7	1026.6
32.5°	1020.8	1009.2	1013.4	1000.5	999.3
35°	977.6	966.1	969.0	956.2	955.2
37.5°	928.3	917.9	919.6	905.5	904.4
40°	893.3	882.9	883.7	868.8	867.8
42.5°	855.0	844.5	843.7	828.7	827.7
45°	791.0	780.6	777.1	763.2	761.1
47.5°	718.1	707.7	701.2	689.9	688.4
50°	665.2	654.8	649.2	639.5	636.4
52.5°	608.1	597.6	592.9	584.1	581.0
55°	518.1	509.8	506.4	497.8	495.7
57.5°	432.6	427.0	426.0	417.7	416.8
60°	380.6	377.4	377.4	369.9	369.9
62.5°	336.2	333.9	335.6	330.7	329.8
65°	278.2	276.1	279.3	277.2	277.2
67.5°	232.4	232.4	234.3	233.5	233.5
70°	206.8	206.8	207.9	207.9	207.9
72.5°	183.8	183.0	185.7	185.7	184.8
75°	150.3	150.3	150.3	151.4	151.4
77.5°	117.1	117.3	118.1	117.9	117.1
80°	94.9	95.9	95.9	94.9	94.9
82.5°	72.7	73.7	73.8	73.5	72.7
85°	38.4	40.5	42.6	42.6	42.6
87.5°	11.1	14.4	17.1	17.0	16.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

TEST NUMBER: P561794

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)