

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: P561548

Luminaire Tested: **SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561548
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7594.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

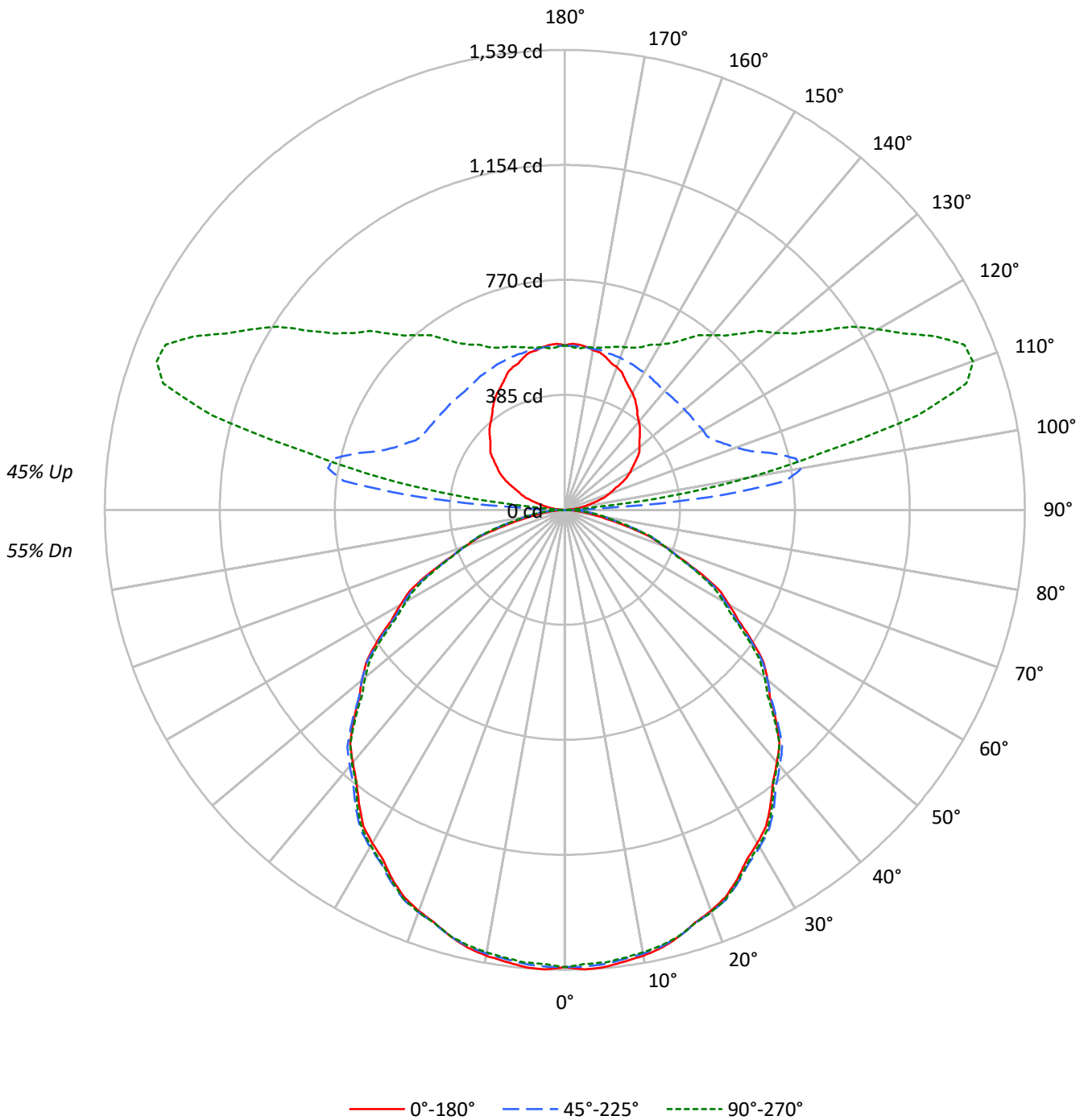
Input Watts (W): 65.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P561548

CATALOG NUMBER: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561548

CATALOG NUMBER: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0		
RCR	0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	61	61	61	61	61	55		
	1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	51	51	51	51	51	46		
	2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	43	43	43	43	43	39		
	3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	37	37	37	37	37	33		
	4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	32	32	32	32	32	28		
	5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	28	28	28	28	28	24		
	6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	24	24	24	24	24	21		
	7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	22	22	22	22	22	19		
	8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	19	19	19	19	19	17		
	9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	17	17	17	17	17	15		
	10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	16	16	16	16	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14118	14118	14118
5°	14225	14133	14080
10°	14190	14124	14084
15°	14115	14115	14102
20°	14023	14065	14065
25°	13891	13991	13948
30°	13721	13887	13827
35°	13517	13724	13628
40°	13294	13481	13345
45°	13052	13144	12941
50°	12711	12711	12508
55°	12307	12148	11966
60°	11714	11477	11295
65°	10826	10610	10516
70°	9479	9555	9517
75°	7625	8434	8484
80°	5419	7152	7226
85°	3303	6002	6002



TEST NUMBER: P561548

CATALOG NUMBER: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.9
10°-20°	415.6	5.5
20°-30°	629.4	8.3
30°-40°	754.5	9.9
40°-50°	769.4	10.1
50°-60°	671.6	8.8
60°-70°	480.8	6.3
70°-80°	247.6	3.3
80°-90°	62.6	0.8
90°-100°	250.8	3.3
100°-110°	713.5	9.4
110°-120°	683.6	9.0
120°-130°	541.0	7.1
130°-140°	434.3	5.7
140°-150°	340.0	4.5
150°-160°	248.8	3.3
160°-170°	154.1	2.0
170°-180°	52.3	0.7
0°-30°	1189.8	15.7
0°-40°	1944.3	25.6
0°-60°	3385.3	44.6
0°-90°	4176.3	55.0
90°-120°	1647.8	21.7
90°-150°	2963.1	39.0
90°-180°	3418.0	45.0
0°-180°	7594.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1536	1521	1526	1522	1520	146
15°	1478	1465	1478	1478	1476	417
25°	1364	1355	1374	1370	1370	628
35°	1200	1197	1218	1210	1210	751
45°	1000	998	1007	995	992	770
55°	765	755	755	744	744	682
65°	496	485	486	482	482	490
75°	214	224	237	238	238	231
85°	31	48	57	58	57	42
90°	0	0	0	0	0	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

TEST NUMBER: P561548

CATALOG NUMBER: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.2	1530.2	1530.2	1530.2	1530.2
2.5°	1539.3	1526.0	1530.2	1526.7	1521.2
5°	1535.9	1520.7	1526.0	1521.7	1520.3
7.5°	1524.8	1509.6	1516.6	1513.8	1512.4
10°	1514.6	1499.4	1507.6	1504.7	1503.3
12.5°	1501.0	1486.9	1496.2	1493.4	1493.1
15°	1477.8	1465.3	1477.8	1477.8	1476.4
17.5°	1448.6	1437.3	1450.6	1451.4	1450.6
20°	1428.2	1415.7	1432.5	1431.1	1432.5
22.5°	1403.3	1393.0	1410.9	1407.3	1408.7
25°	1364.5	1354.8	1374.4	1370.1	1370.1
27.5°	1318.6	1311.6	1333.0	1328.5	1328.5
30°	1287.9	1281.0	1303.5	1297.9	1297.9
32.5°	1253.9	1249.2	1270.7	1263.9	1263.9
35°	1200.1	1197.3	1218.5	1210.0	1210.0
37.5°	1144.6	1142.1	1161.3	1151.0	1147.7
40°	1103.8	1102.4	1119.3	1108.0	1108.0
42.5°	1062.9	1061.6	1076.3	1062.7	1062.7
45°	1000.3	997.5	1007.4	994.6	991.8
47.5°	932.0	929.3	935.4	921.5	920.1
50°	885.6	882.8	885.6	872.8	871.4
52.5°	837.9	833.0	833.4	820.7	820.4
55°	765.1	755.4	755.2	743.9	743.9
57.5°	688.0	675.3	676.4	666.8	665.4
60°	634.8	620.9	622.0	613.5	612.1
62.5°	582.6	566.6	569.9	560.2	560.0
65°	495.9	484.8	486.0	481.7	481.7
67.5°	412.6	402.3	409.8	406.4	406.1
70°	351.4	344.5	354.2	354.2	352.8
72.5°	294.7	294.4	306.6	306.6	307.5
75°	213.9	223.6	236.6	238.0	238.0
77.5°	142.8	160.0	174.3	174.8	174.6
80°	102.0	121.4	134.6	137.4	136.0
82.5°	69.1	89.6	100.6	103.4	102.0
85°	31.2	47.8	56.7	58.1	56.7
87.5°	9.1	19.0	22.7	22.6	20.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

TEST NUMBER: P561548

CATALOG NUMBER: SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)