

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: P561469

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561469
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-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

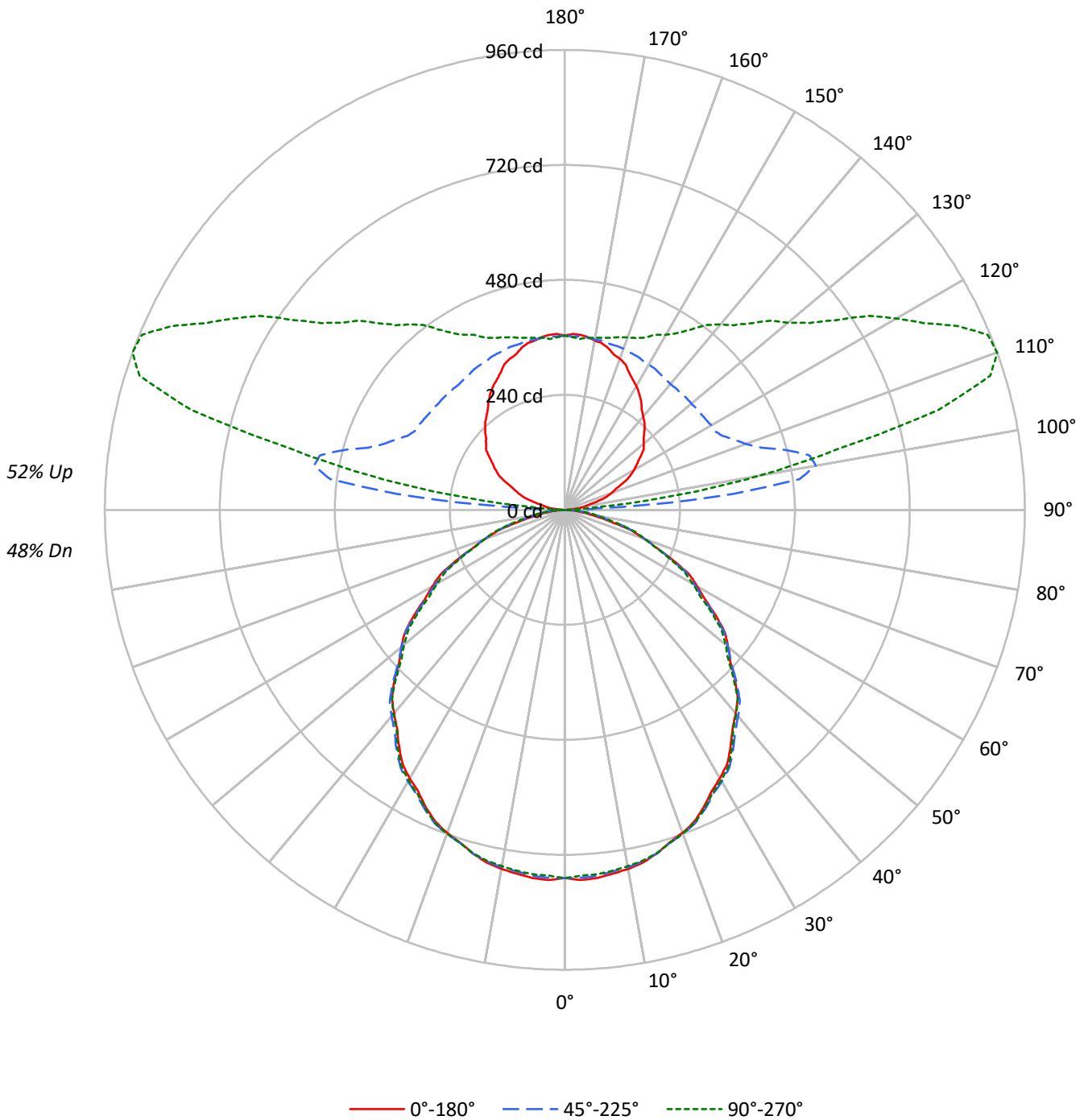
Lumens per Lamp: N/A
Luminaire Lumens: 4356.6 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.5
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



TEST NUMBER: P561469
CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561469

CATALOG NUMBER: SQ4-PC3-050U-050D-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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7093	7093	7093
5°	7146	7100	7074
10°	7129	7096	7075
15°	7091	7091	7084
20°	7045	7065	7065
25°	6978	7029	7007
30°	6893	6977	6946
35°	6791	6895	6847
40°	6678	6772	6704
45°	6557	6604	6502
50°	6386	6386	6284
55°	6183	6103	6011
60°	5884	5766	5674
65°	5438	5331	5283
70°	4761	4802	4780
75°	3832	4238	4263
80°	2726	3592	3629
85°	1662	3017	3017



TEST NUMBER: P561469

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.7
10°-20°	208.8	4.8
20°-30°	316.2	7.3
30°-40°	379.1	8.7
40°-50°	386.5	8.9
50°-60°	337.4	7.7
60°-70°	241.5	5.5
70°-80°	124.4	2.9
80°-90°	31.5	0.7
90°-100°	165.7	3.8
100°-110°	471.4	10.8
110°-120°	451.7	10.4
120°-130°	357.5	8.2
130°-140°	286.9	6.6
140°-150°	224.6	5.2
150°-160°	164.4	3.8
160°-170°	101.8	2.3
170°-180°	34.5	0.8
0°-30°	597.7	13.7
0°-40°	976.8	22.4
0°-60°	1700.7	39.0
0°-90°	2098.1	48.2
90°-120°	1088.8	25.0
90°-150°	1957.8	44.9
90°-180°	2259.0	51.9
0°-180°	4356.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	764	767	764	764	73
15°	742	736	742	742	742	209
25°	686	681	690	688	688	315
35°	603	602	612	608	608	377
45°	502	501	506	500	498	387
55°	384	380	379	374	374	343
65°	249	244	244	242	242	246
75°	108	112	119	120	120	116
85°	16	24	28	29	28	21
90°	0	0	0	0	0	1
95°	18	71	321	111	68	21
105°	73	111	480	849	807	78
115°	136	165	364	772	906	134
125°	192	213	348	577	690	172
135°	235	255	344	487	551	181
145°	277	291	346	422	460	173
155°	317	324	355	381	397	146
165°	350	351	359	366	372	98
175°	366	364	363	361	358	35
180°	364	364	364	364	364	

TEST NUMBER: P561469

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	773.3	766.6	768.8	767.0	764.2
5°	771.6	764.0	766.6	764.5	763.8
7.5°	766.1	758.4	761.9	760.5	759.8
10°	760.9	753.3	757.4	755.9	755.2
12.5°	754.1	747.0	751.7	750.2	750.1
15°	742.4	736.2	742.4	742.4	741.7
17.5°	727.8	722.1	728.8	729.2	728.8
20°	717.5	711.2	719.6	718.9	719.6
22.5°	705.0	699.8	708.8	707.0	707.7
25°	685.5	680.6	690.5	688.3	688.3
27.5°	662.4	658.9	669.7	667.4	667.4
30°	647.0	643.6	654.9	652.0	652.0
32.5°	630.0	627.6	638.4	634.9	634.9
35°	602.9	601.5	612.2	607.9	607.9
37.5°	575.0	573.8	583.4	578.2	576.6
40°	554.5	553.8	562.3	556.6	556.6
42.5°	534.0	533.3	540.7	533.9	533.9
45°	502.5	501.1	506.1	499.7	498.3
47.5°	468.2	466.8	469.9	462.9	462.3
50°	444.9	443.5	444.9	438.5	437.8
52.5°	421.0	418.5	418.7	412.3	412.1
55°	384.4	379.5	379.4	373.7	373.7
57.5°	345.7	339.3	339.8	335.0	334.3
60°	318.9	311.9	312.5	308.2	307.5
62.5°	292.7	284.6	286.3	281.4	281.3
65°	249.1	243.6	244.2	242.0	242.0
67.5°	207.3	202.1	205.9	204.1	204.0
70°	176.5	173.0	178.0	177.9	177.2
72.5°	148.1	147.9	154.0	154.0	154.5
75°	107.5	112.4	118.9	119.6	119.6
77.5°	71.8	80.4	87.6	87.8	87.7
80°	51.3	61.0	67.6	69.0	68.3
82.5°	34.7	45.0	50.5	51.9	51.3
85°	15.7	24.0	28.5	29.2	28.5
87.5°	4.6	9.6	11.4	11.4	10.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	29.3	68.0	19.8	14.9
95°	18.0	71.4	320.7	111.0	68.4
97.5°	33.0	83.6	494.0	353.5	242.2
100°	43.5	90.9	531.6	538.4	414.7
102.5°	55.2	98.7	523.3	689.2	581.2
105°	73.3	111.1	480.4	848.6	806.7
107.5°	91.7	125.6	430.4	893.5	930.8
110°	104.4	136.1	401.6	876.3	960.1

TEST NUMBER: P561469

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116.5	146.7	382.3	835.7	955.2
115°	136.2	164.6	364.3	771.7	906.2
117.5°	153.5	180.1	353.6	701.8	844.3
120°	167.3	189.6	352.5	661.9	798.4
122.5°	178.3	200.6	349.8	626.8	753.6
125°	192.2	213.1	347.7	577.0	689.9
127.5°	207.2	226.8	346.6	547.2	640.2
130°	215.0	234.6	344.9	526.5	607.6
132.5°	223.3	242.3	344.9	510.3	584.9
135°	235.0	254.6	343.5	487.4	550.9
137.5°	246.1	265.1	343.4	468.0	522.9
140°	254.4	274.0	342.9	451.9	504.6
142.5°	263.8	280.1	344.5	439.0	486.4
145°	277.2	291.4	346.3	421.8	459.7
147.5°	288.7	302.4	349.4	404.4	437.1
150°	298.6	308.1	350.5	398.7	421.7
152.5°	306.4	316.4	351.6	390.9	412.3
155°	316.6	324.0	354.6	381.2	396.8
157.5°	329.3	333.8	355.3	376.8	387.9
160°	335.9	339.3	358.1	373.5	382.9
162.5°	339.8	343.7	358.6	370.7	378.0
165°	349.8	351.1	358.8	366.5	371.9
167.5°	356.5	355.3	361.9	365.4	367.6
170°	358.8	358.1	360.8	361.6	364.3
172.5°	363.7	361.4	362.5	360.5	362.6
175°	366.4	364.3	362.9	360.8	358.1
177.5°	367.5	364.2	362.5	360.3	360.8
180°	363.6	363.6	363.6	363.6	363.6

(END OF REPORT)