

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: P561465

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561465
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

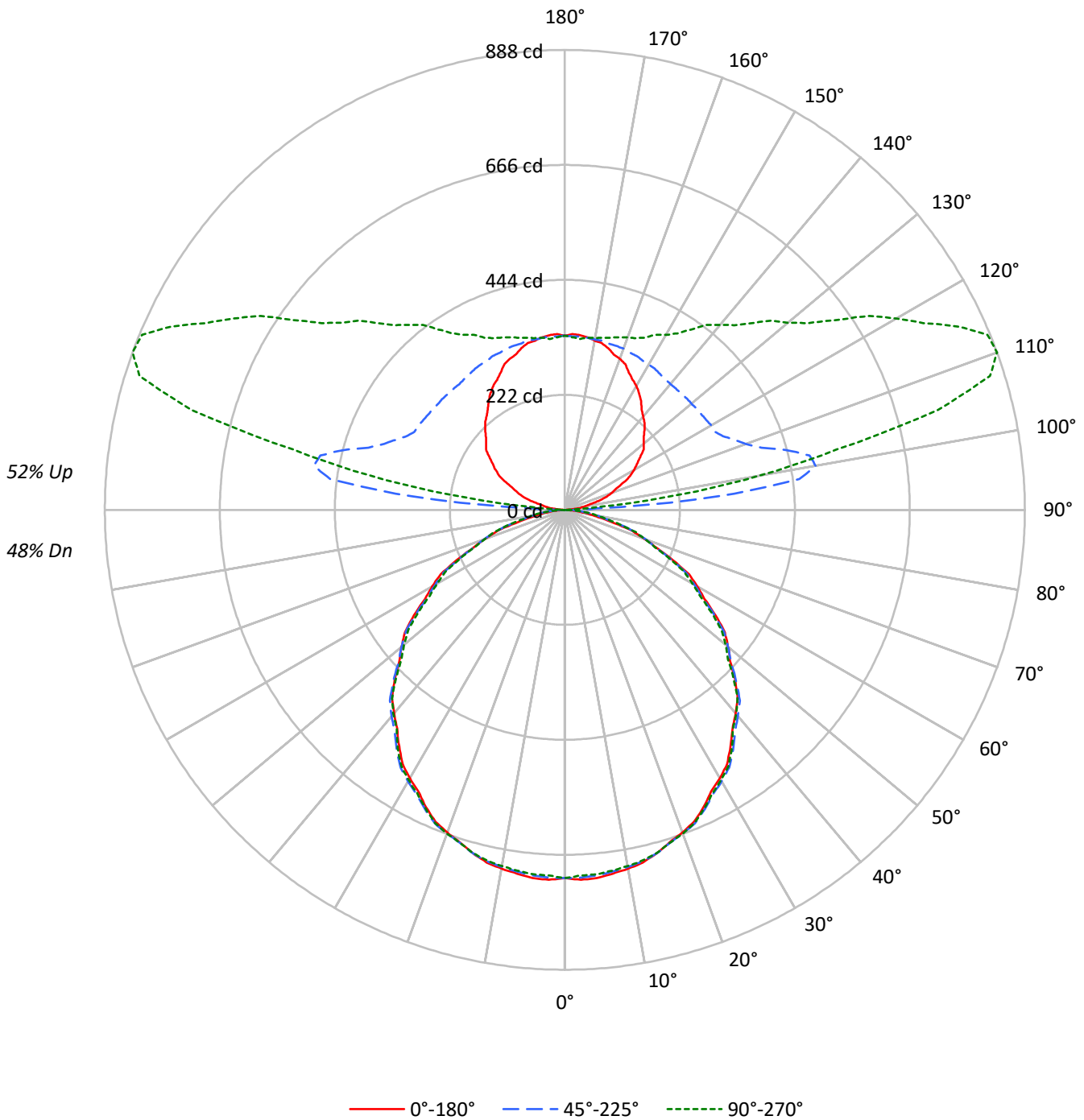
Lumens per Lamp: N/A
Luminaire Lumens: 4028.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.4
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: P561465
CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P561465

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

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°	6558	6558	6558
5°	6608	6565	6540
10°	6592	6561	6542
15°	6557	6557	6551
20°	6513	6533	6533
25°	6452	6499	6479
30°	6374	6451	6423
35°	6279	6375	6331
40°	6175	6263	6199
45°	6063	6106	6011
50°	5905	5905	5810
55°	5717	5643	5558
60°	5442	5331	5246
65°	5030	4929	4886
70°	4402	4437	4421
75°	3543	3918	3943
80°	2518	3321	3358
85°	1535	2784	2784



TEST NUMBER: P561465

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	1.7
10°-20°	193.0	4.8
20°-30°	292.3	7.3
30°-40°	350.5	8.7
40°-50°	357.4	8.9
50°-60°	312.0	7.7
60°-70°	223.3	5.5
70°-80°	115.0	2.9
80°-90°	29.1	0.7
90°-100°	153.2	3.8
100°-110°	435.9	10.8
110°-120°	417.6	10.4
120°-130°	330.5	8.2
130°-140°	265.3	6.6
140°-150°	207.7	5.2
150°-160°	152.0	3.8
160°-170°	94.1	2.3
170°-180°	31.9	0.8
0°-30°	552.7	13.7
0°-40°	903.2	22.4
0°-60°	1572.5	39.0
0°-90°	1940.0	48.2
90°-120°	1006.7	25.0
90°-150°	1810.2	44.9
90°-180°	2088.0	51.8
0°-180°	4028.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	714	706	709	707	706	68
15°	686	681	686	686	686	194
25°	634	629	638	636	636	292
35°	558	556	566	562	562	349
45°	465	463	468	462	461	358
55°	355	351	351	346	346	317
65°	230	225	226	224	224	228
75°	99	104	110	111	111	107
85°	14	22	26	27	26	20
90°	0	0	0	0	0	1
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	



TEST NUMBER: P561465

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.8	710.8	710.8	710.8	710.8
2.5°	715.0	708.9	710.8	709.2	706.6
5°	713.5	706.4	708.8	706.9	706.2
7.5°	708.3	701.2	704.5	703.2	702.5
10°	703.6	696.5	700.3	699.0	698.3
12.5°	697.3	690.7	695.0	693.7	693.6
15°	686.5	680.7	686.5	686.5	685.8
17.5°	672.9	667.6	673.8	674.2	673.8
20°	663.4	657.6	665.4	664.8	665.4
22.5°	651.8	647.1	655.4	653.7	654.3
25°	633.8	629.3	638.4	636.4	636.4
27.5°	612.5	609.3	619.2	617.1	617.1
30°	598.3	595.1	605.5	602.9	602.9
32.5°	582.5	580.3	590.2	587.1	587.1
35°	557.5	556.2	566.0	562.1	562.1
37.5°	531.7	530.5	539.4	534.7	533.1
40°	512.7	512.1	520.0	514.7	514.7
42.5°	493.8	493.1	499.9	493.6	493.6
45°	464.7	463.4	468.0	462.0	460.7
47.5°	432.9	431.7	434.5	428.1	427.4
50°	411.4	410.1	411.4	405.4	404.8
52.5°	389.2	386.9	387.1	381.2	381.1
55°	355.4	350.9	350.8	345.5	345.5
57.5°	319.6	313.7	314.2	309.7	309.1
60°	294.9	288.4	288.9	285.0	284.3
62.5°	270.6	263.2	264.7	260.2	260.1
65°	230.4	225.2	225.8	223.8	223.8
67.5°	191.7	186.9	190.3	188.8	188.6
70°	163.2	160.0	164.5	164.5	163.9
72.5°	136.9	136.8	142.4	142.4	142.8
75°	99.4	103.9	109.9	110.6	110.6
77.5°	66.3	74.3	81.0	81.2	81.1
80°	47.4	56.4	62.5	63.8	63.2
82.5°	32.1	41.6	46.7	48.0	47.4
85°	14.5	22.2	26.3	27.0	26.3
87.5°	4.2	8.8	10.5	10.5	9.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

TEST NUMBER: P561465

CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)