

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: P561665

Luminaire Tested: **SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561665
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-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

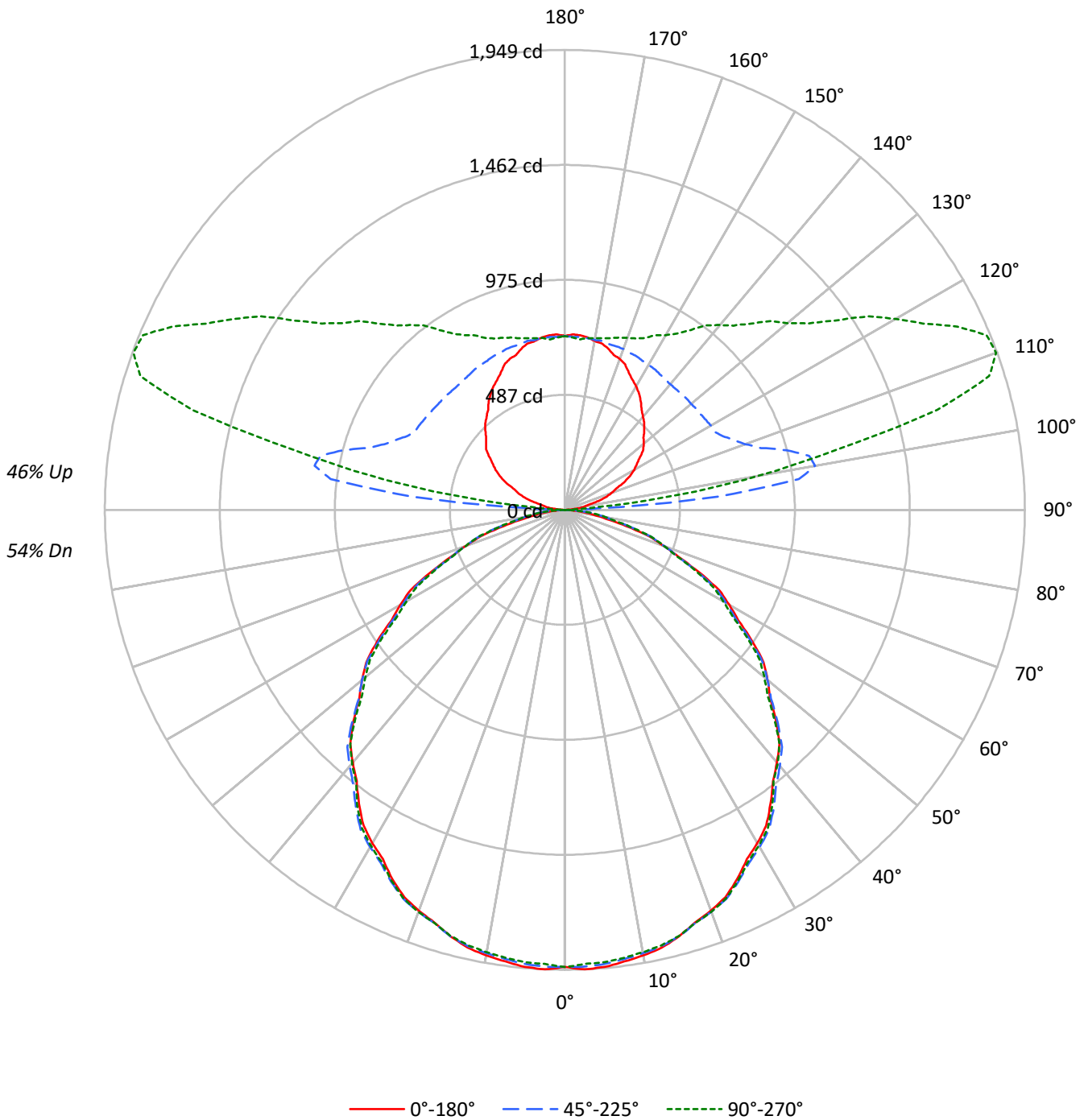
Lumens per Lamp: N/A
Luminaire Lumens: 9861.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88
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: P561665
CATALOG NUMBER: SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561665

CATALOG NUMBER: SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54		
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45		
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38		
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32		
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28		
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27	24		
6	63	51	43	37	59	48	40	35	41	36	31	35	31	27	30	26	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18		
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19	16		
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15		
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17875	17875	17875
5°	18010	17893	17826
10°	17966	17882	17831
15°	17871	17871	17854
20°	17753	17807	17807
25°	17586	17714	17659
30°	17372	17583	17506
35°	17113	17376	17255
40°	16830	17069	16895
45°	16525	16641	16384
50°	16093	16093	15835
55°	15582	15379	15149
60°	14830	14531	14301
65°	13708	13433	13315
70°	12001	12099	12050
75°	9657	10680	10744
80°	6865	9054	9149
85°	4181	7601	7601



TEST NUMBER: P561665

CATALOG NUMBER: SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	1.9
10°-20°	526.2	5.3
20°-30°	796.8	8.1
30°-40°	955.3	9.7
40°-50°	974.0	9.9
50°-60°	850.3	8.6
60°-70°	608.7	6.2
70°-80°	313.5	3.2
80°-90°	79.3	0.8
90°-100°	335.6	3.4
100°-110°	954.8	9.7
110°-120°	914.8	9.3
120°-130°	724.0	7.3
130°-140°	581.1	5.9
140°-150°	455.0	4.6
150°-160°	332.9	3.4
160°-170°	206.2	2.1
170°-180°	70.0	0.7
0°-30°	1506.3	15.3
0°-40°	2461.6	25.0
0°-60°	4286.0	43.5
0°-90°	5287.5	53.6
90°-120°	2205.2	22.4
90°-150°	3965.3	40.2
90°-180°	4574.0	46.4
0°-180°	9861.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1945	1925	1932	1927	1925	185
15°	1871	1855	1871	1871	1869	528
25°	1728	1715	1740	1735	1735	795
35°	1519	1516	1543	1532	1532	950
45°	1266	1263	1275	1259	1256	975
55°	969	956	956	942	942	864
65°	628	614	615	610	610	621
75°	271	283	300	301	301	293
85°	40	60	72	74	72	54
90°	0	0	0	0	0	3
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

TEST NUMBER: P561665

CATALOG NUMBER: SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1948.9	1932.0	1937.4	1932.9	1925.9
5°	1944.6	1925.3	1932.0	1926.6	1924.8
7.5°	1930.6	1911.3	1920.2	1916.5	1914.8
10°	1917.7	1898.4	1908.7	1905.1	1903.3
12.5°	1900.4	1882.5	1894.3	1890.7	1890.4
15°	1871.0	1855.2	1871.0	1871.0	1869.2
17.5°	1834.1	1819.7	1836.6	1837.6	1836.6
20°	1808.2	1792.4	1813.6	1811.9	1813.6
22.5°	1776.7	1763.7	1786.3	1781.7	1783.5
25°	1727.5	1715.2	1740.1	1734.7	1734.7
27.5°	1669.4	1660.6	1687.7	1681.9	1681.9
30°	1630.6	1621.9	1650.4	1643.2	1643.2
32.5°	1587.6	1581.6	1608.7	1600.1	1600.1
35°	1519.4	1515.9	1542.7	1532.0	1532.0
37.5°	1449.1	1445.9	1470.3	1457.2	1453.0
40°	1397.4	1395.7	1417.2	1402.8	1402.8
42.5°	1345.8	1344.0	1362.6	1345.4	1345.4
45°	1266.5	1263.0	1275.4	1259.2	1255.7
47.5°	1180.0	1176.5	1184.3	1166.7	1164.9
50°	1121.2	1117.7	1121.2	1105.0	1103.2
52.5°	1060.9	1054.6	1055.2	1039.0	1038.7
55°	968.7	956.4	956.1	941.8	941.8
57.5°	871.1	855.0	856.4	844.2	842.4
60°	803.7	786.1	787.5	776.7	775.0
62.5°	737.6	717.3	721.5	709.3	708.9
65°	627.9	613.8	615.3	609.9	609.9
67.5°	522.4	509.4	518.8	514.5	514.1
70°	444.9	436.1	448.5	448.4	446.7
72.5°	373.1	372.8	388.2	388.2	389.3
75°	270.9	283.2	299.6	301.4	301.4
77.5°	180.8	202.6	220.6	221.4	221.0
80°	129.2	153.7	170.4	174.0	172.2
82.5°	87.5	113.5	127.4	130.9	129.2
85°	39.5	60.5	71.8	73.5	71.8
87.5°	11.5	24.1	28.7	28.6	25.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

TEST NUMBER: P561665

CATALOG NUMBER: SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)