

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: P561873

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561873
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-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

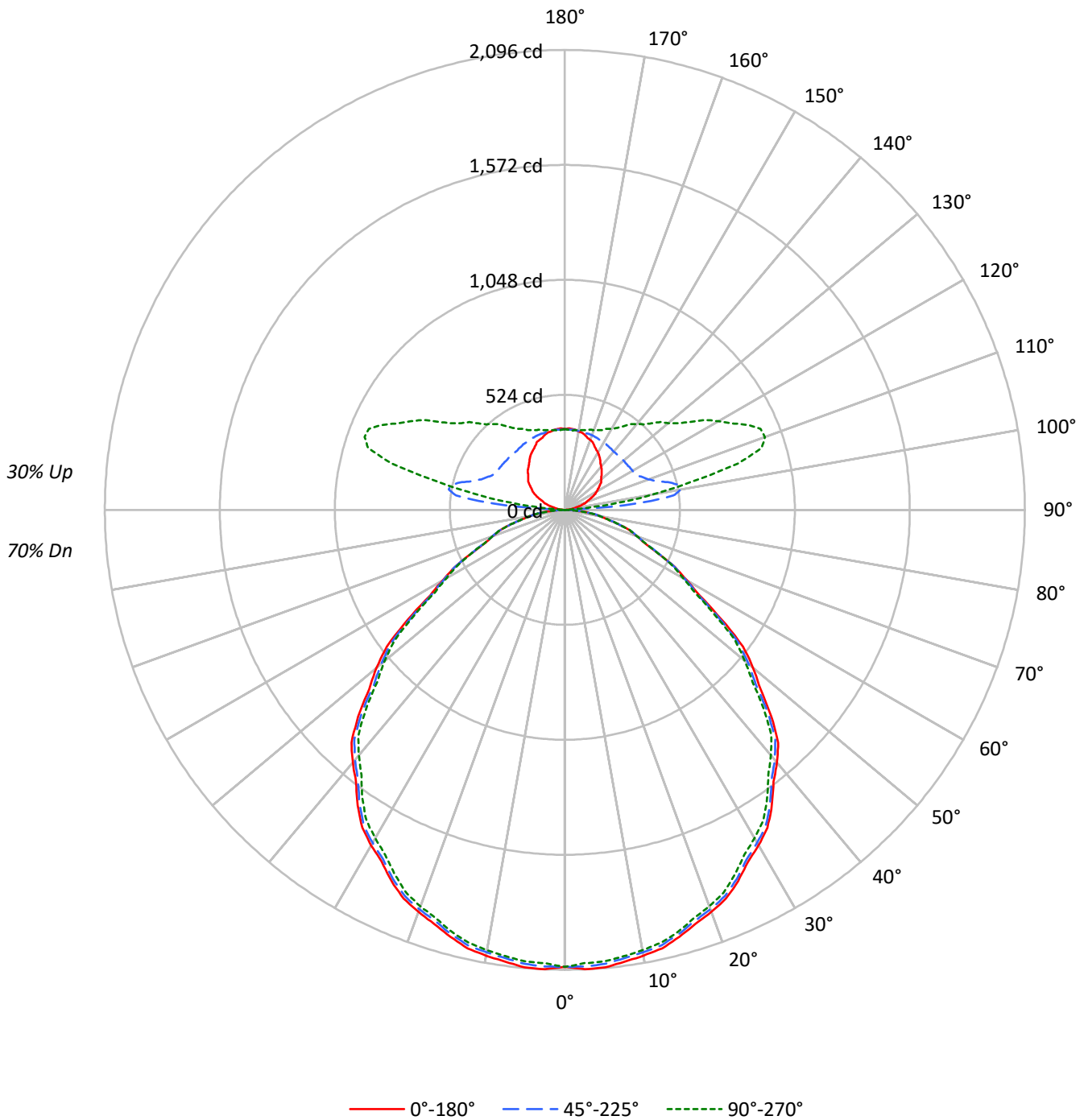
Lumens per Lamp: N/A
Luminaire Lumens: 7490.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.5
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: P561873
CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561873

CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	98	94	91	97	93	90	87	83	81	78	74	72	71	66	65	63	59
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37
5	72	61	52	46	68	58	50	45	52	46	42	47	42	38	43	39	35	33
6	67	55	46	40	63	52	45	39	47	41	36	43	38	34	39	34	31	29
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	35	31	28	26
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	33	28	25	23
9	54	41	34	28	51	40	32	28	36	30	26	33	28	24	30	26	23	21
10	50	38	31	26	48	36	30	25	33	28	24	31	26	22	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19215	19215	19215
5°	19388	19239	19139
10°	19327	19192	19091
15°	19242	19122	19019
20°	19145	19022	18881
25°	19010	18883	18663
30°	18806	18671	18404
35°	18528	18366	18103
40°	18106	17911	17587
45°	17368	17063	16712
50°	16067	15681	15371
55°	14023	13706	13417
60°	11817	11717	11487
65°	10221	10261	10182
70°	9388	9436	9436
75°	9015	9015	9079
80°	8485	8575	8485
85°	6838	7601	7601



TEST NUMBER: P561873

CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	2.6
10°-20°	563.5	7.5
20°-30°	849.9	11.3
30°-40°	1012.7	13.5
40°-50°	998.4	13.3
50°-60°	763.0	10.2
60°-70°	472.2	6.3
70°-80°	268.2	3.6
80°-90°	81.6	1.1
90°-100°	167.5	2.2
100°-110°	476.6	6.4
110°-120°	456.7	6.1
120°-130°	361.4	4.8
130°-140°	290.1	3.9
140°-150°	227.1	3.0
150°-160°	166.2	2.2
160°-170°	102.9	1.4
170°-180°	34.9	0.5
0°-30°	1610.4	21.5
0°-40°	2623.0	35.0
0°-60°	4384.5	58.5
0°-90°	5206.5	69.5
90°-120°	1100.8	14.7
90°-150°	1979.5	26.4
90°-180°	2283.0	30.5
0°-180°	7490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2093	2071	2077	2070	2066	199
15°	2014	1994	2002	1995	1991	568
25°	1867	1845	1855	1835	1833	859
35°	1645	1626	1631	1609	1607	1027
45°	1331	1314	1308	1284	1281	1020
55°	872	858	852	838	834	781
65°	468	465	470	466	466	474
75°	253	253	253	255	255	267
85°	65	68	72	72	72	75
90°	0	0	0	0	0	3
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

TEST NUMBER: P561873

CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.7	2082.7	2082.7	2082.7	2082.7
2.5°	2095.6	2077.4	2082.7	2078.2	2068.3
5°	2093.4	2070.6	2077.3	2070.0	2066.5
7.5°	2077.3	2054.9	2061.5	2054.3	2052.2
10°	2063.0	2041.9	2048.6	2041.3	2037.8
12.5°	2047.2	2024.7	2032.8	2024.1	2020.6
15°	2014.5	1993.5	2002.0	1994.7	1991.2
17.5°	1978.6	1956.2	1964.6	1956.3	1951.7
20°	1949.9	1928.9	1937.4	1924.8	1923.0
22.5°	1918.4	1897.3	1905.8	1888.9	1888.6
25°	1867.4	1844.6	1854.9	1835.1	1833.3
27.5°	1806.8	1785.7	1794.2	1774.1	1772.0
30°	1765.2	1744.1	1752.6	1731.0	1727.5
32.5°	1717.8	1698.2	1705.3	1683.7	1681.6
35°	1645.0	1625.7	1630.6	1609.1	1607.3
37.5°	1562.1	1544.6	1547.4	1523.7	1521.9
40°	1503.3	1485.7	1487.1	1462.0	1460.2
42.5°	1438.7	1421.1	1419.7	1394.5	1392.8
45°	1331.1	1313.5	1307.7	1284.3	1280.8
47.5°	1208.4	1190.8	1180.0	1160.9	1158.5
50°	1119.4	1101.8	1092.5	1076.2	1070.9
52.5°	1023.2	1005.7	997.8	982.9	977.7
55°	871.8	857.8	852.1	837.7	834.1
57.5°	728.0	718.5	716.8	702.8	701.4
60°	640.4	635.1	635.0	622.5	622.5
62.5°	565.8	561.9	564.7	556.4	555.0
65°	468.2	464.7	470.0	466.4	466.4
67.5°	391.1	391.1	394.3	392.9	392.9
70°	348.0	348.0	349.8	349.8	349.8
72.5°	309.3	307.9	312.5	312.5	311.1
75°	252.9	252.9	252.9	254.7	254.7
77.5°	197.0	197.3	198.8	198.4	197.0
80°	159.7	161.4	161.4	159.7	159.7
82.5°	122.3	124.1	124.1	123.7	122.3
85°	64.6	68.1	71.8	71.8	71.8
87.5°	18.7	24.3	28.7	28.7	27.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

TEST NUMBER: P561873

CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)