

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: P561509

Luminaire Tested: **SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561509
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-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

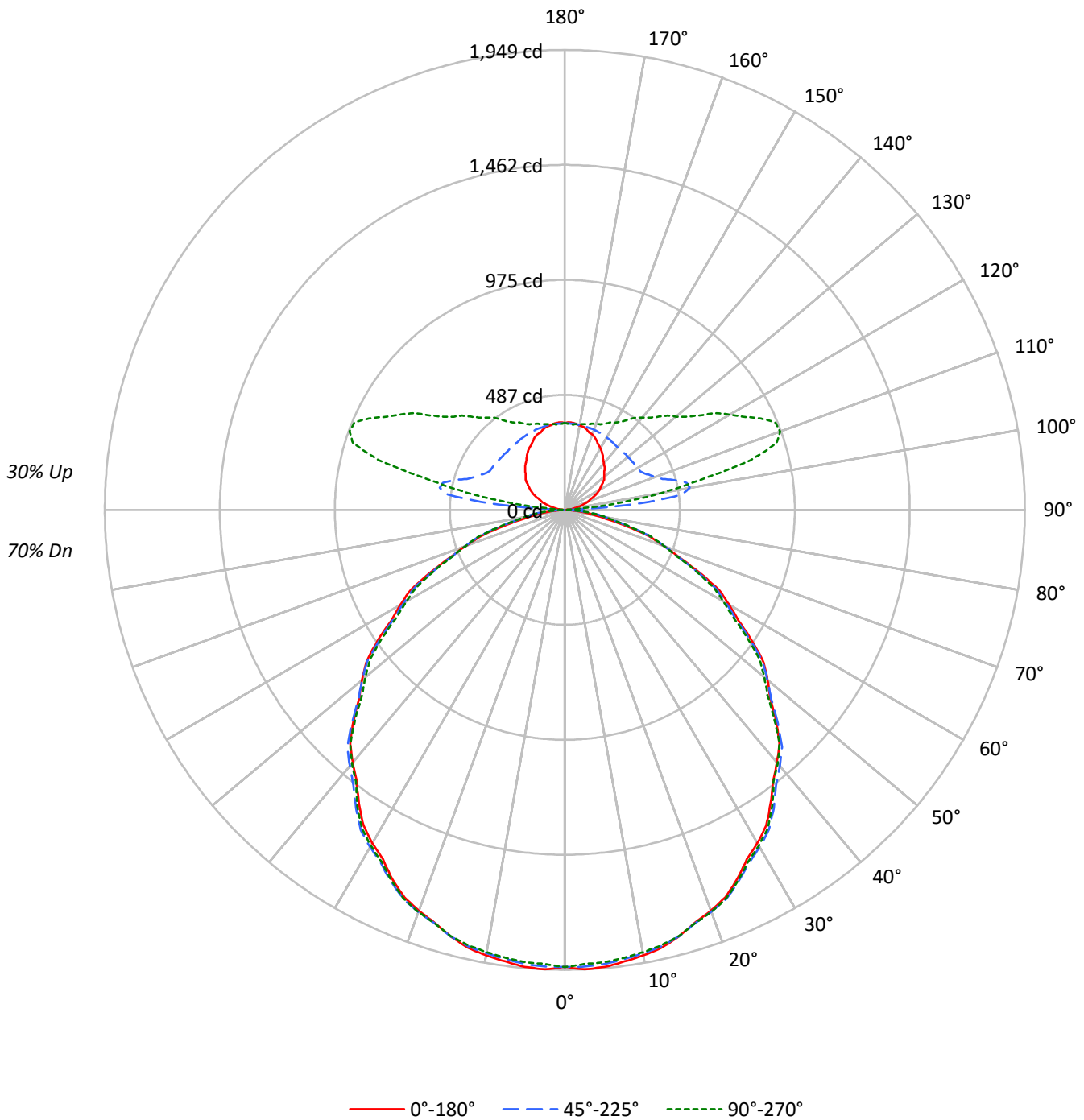
Lumens per Lamp: N/A
Luminaire Lumens: 7571.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



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Luminous Intensity Polar Plot





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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	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	75	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39	36
5	71	59	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30	27
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	34	30	26	24
8	57	44	36	30	53	42	35	29	38	32	27	35	29	26	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	24	32	26	22	30	24	21	27	23	19	18

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.4
10°-20°	526.2	6.9
20°-30°	796.8	10.5
30°-40°	955.3	12.6
40°-50°	974.0	12.9
50°-60°	850.3	11.2
60°-70°	608.7	8.0
70°-80°	313.5	4.1
80°-90°	79.3	1.0
90°-100°	167.5	2.2
100°-110°	476.6	6.3
110°-120°	456.7	6.0
120°-130°	361.4	4.8
130°-140°	290.1	3.8
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°	1506.3	19.9
0°-40°	2461.6	32.5
0°-60°	4286.0	56.6
0°-90°	5287.5	69.8
90°-120°	1100.8	14.5
90°-150°	1979.5	26.1
90°-180°	2283.0	30.2
0°-180°	7571.0	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	2
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: P561509

CATALOG NUMBER: SQ4-PC3-050U-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°	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

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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)