

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: P523717

Luminaire Tested: **SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523717
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7700.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

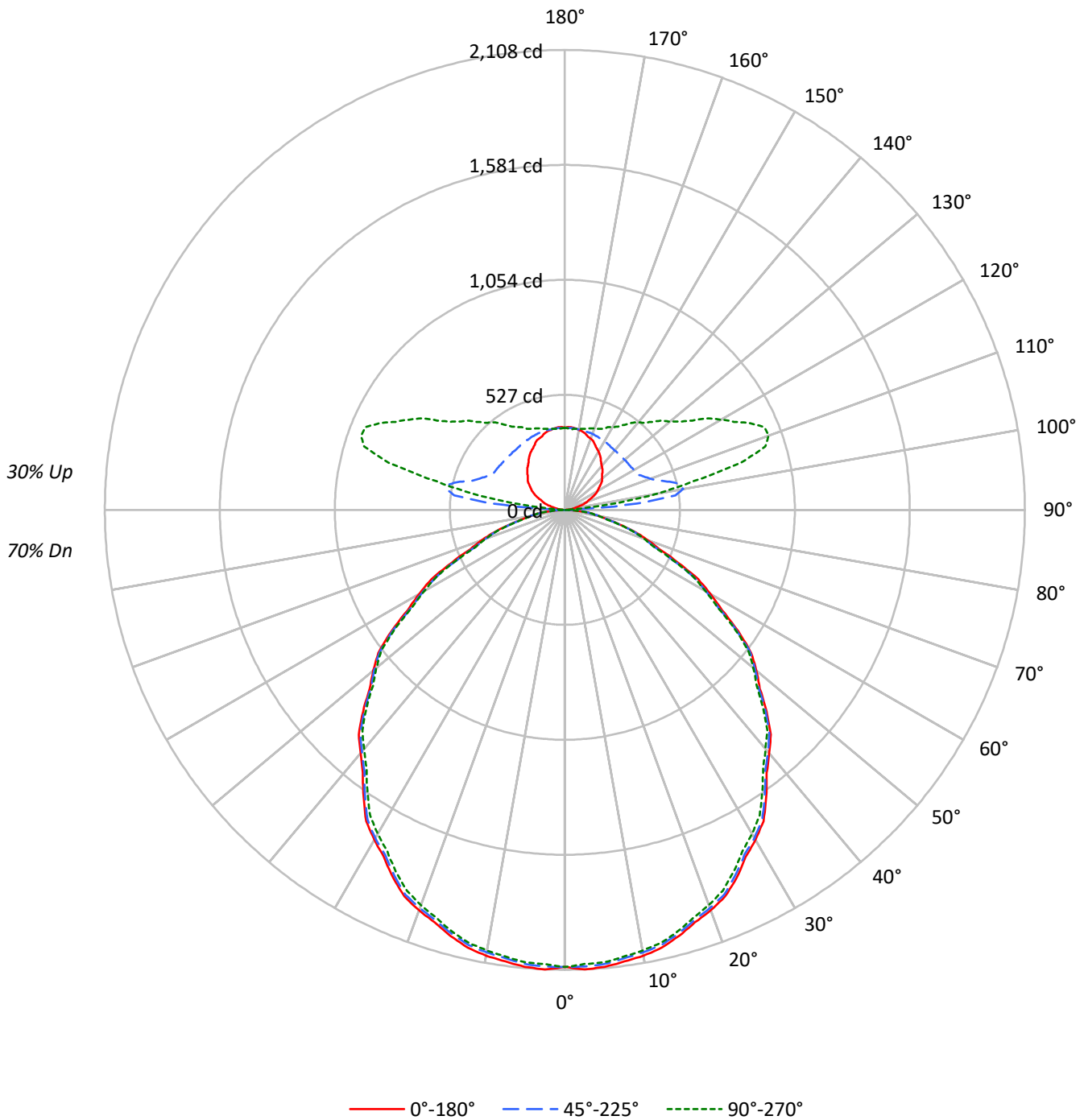
Input Watts (W): 71.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523717

CATALOG NUMBER: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523717

CATALOG NUMBER: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)

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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	102	98	94	91	97	93	90	86	83	81	78	74	72	71	66	65	63	63	63	63	59	
2	94	86	80	75	88	82	76	71	73	69	65	66	62	59	58	56	54	54	54	54	50	
3	86	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	46	46	46	43	
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	47	43	40	40	40	40	37	
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35	35	35	35	32	
6	66	54	46	40	63	52	44	38	47	40	36	42	37	33	38	34	31	31	31	31	28	
7	62	49	41	35	58	47	39	34	43	36	32	39	33	29	35	31	27	27	27	27	25	
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	28	24	24	24	24	22	
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	22	22	22	20	
10	50	38	30	25	47	36	29	24	33	27	23	30	25	22	27	23	20	20	20	20	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19331	19331	19331
5°	19472	19353	19285
10°	19440	19302	19216
15°	19311	19206	19100
20°	19183	19074	18931
25°	18955	18824	18637
30°	18604	18506	18272
35°	18117	17993	17765
40°	17537	17428	17228
45°	17059	16939	16772
50°	16446	16341	16183
55°	15595	15389	15270
60°	14197	13791	13723
65°	12507	11985	11946
70°	10798	10353	10353
75°	9293	9165	9033
80°	8193	8294	8097
85°	6415	6997	6997



TEST NUMBER: P523717

CATALOG NUMBER: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	2.6
10°-20°	565.7	7.3
20°-30°	847.3	11.0
30°-40°	993.9	12.9
40°-50°	997.0	12.9
50°-60°	850.5	11.0
60°-70°	554.7	7.2
70°-80°	278.3	3.6
80°-90°	77.0	1.0
90°-100°	171.5	2.2
100°-110°	488.0	6.3
110°-120°	467.6	6.1
120°-130°	370.1	4.8
130°-140°	297.0	3.9
140°-150°	232.5	3.0
150°-160°	170.1	2.2
160°-170°	105.4	1.4
170°-180°	35.8	0.5
0°-30°	1611.1	20.9
0°-40°	2605.0	33.8
0°-60°	4452.5	57.8
0°-90°	5362.4	69.6
90°-120°	1127.1	14.6
90°-150°	2026.7	26.3
90°-180°	2338.0	30.4
0°-180°	7700.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2102	2083	2090	2082	2082	200
15°	2022	2002	2011	2003	2000	570
25°	1862	1840	1849	1832	1831	856
35°	1608	1592	1598	1579	1577	1005
45°	1307	1298	1298	1285	1285	1007
55°	970	966	957	951	949	862
65°	573	562	549	545	547	572
75°	261	261	257	255	253	283
85°	61	66	66	66	66	71
90°	0	0	0	0	0	3
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	

TEST NUMBER: P523717

CATALOG NUMBER: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2095.2	2095.2	2095.2	2095.2	2095.2
2.5°	2108.4	2091.1	2095.2	2092.0	2083.4
5°	2102.5	2082.7	2089.6	2082.3	2082.3
7.5°	2088.2	2066.6	2073.5	2066.1	2065.8
10°	2075.0	2053.4	2060.3	2052.9	2051.1
12.5°	2055.9	2034.3	2042.6	2033.8	2033.5
15°	2021.7	2002.0	2010.7	2003.3	1999.7
17.5°	1983.1	1961.6	1972.1	1961.8	1960.4
20°	1953.8	1932.2	1942.7	1928.1	1928.1
22.5°	1918.5	1897.0	1909.0	1889.9	1889.9
25°	1862.0	1840.4	1849.1	1832.5	1830.7
27.5°	1794.7	1773.6	1782.6	1763.9	1763.5
30°	1746.3	1726.5	1737.1	1716.8	1715.1
32.5°	1693.4	1675.1	1682.7	1662.5	1660.7
35°	1608.5	1592.4	1597.5	1579.1	1577.3
37.5°	1519.3	1502.8	1508.7	1492.9	1492.1
40°	1456.1	1445.4	1447.0	1434.0	1430.4
42.5°	1397.4	1385.2	1386.7	1373.9	1373.1
45°	1307.4	1298.4	1298.2	1285.4	1285.4
47.5°	1211.9	1205.1	1203.1	1192.4	1192.1
50°	1145.8	1140.4	1138.5	1129.2	1127.5
52.5°	1076.8	1074.3	1068.0	1060.2	1059.9
55°	969.5	965.9	956.7	951.1	949.3
57.5°	853.1	845.9	835.5	827.4	828.9
60°	769.4	762.2	747.4	743.7	743.7
62.5°	688.6	680.0	665.1	660.0	662.9
65°	572.9	562.1	549.0	545.4	547.2
67.5°	467.9	458.2	444.0	444.0	442.5
70°	400.3	394.9	383.8	383.8	383.8
72.5°	340.1	337.6	329.4	329.4	328.0
75°	260.7	260.7	257.1	255.2	253.4
77.5°	195.4	196.1	194.3	192.4	189.1
80°	154.2	157.8	156.1	154.2	152.4
82.5°	116.1	119.6	119.4	116.0	115.7
85°	60.6	66.0	66.1	66.1	66.1
87.5°	16.2	21.9	23.5	23.5	25.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9

TEST NUMBER: P523717

CATALOG NUMBER: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)