

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: P523660

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523660
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-PP3-025U-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6943.1 lumens
Efficiency: N/A
Efficacy: 99.5 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

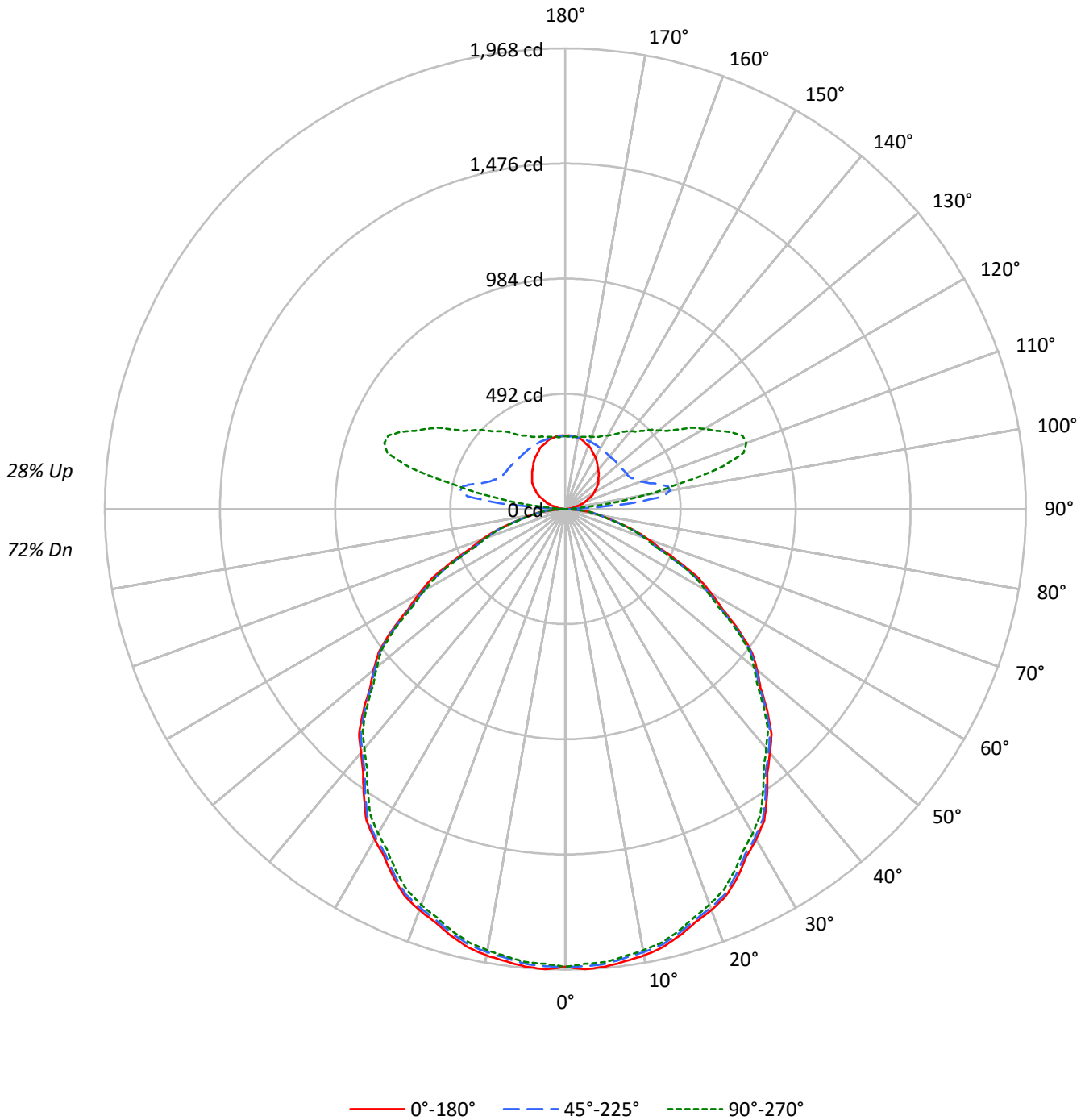
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	76	76	76	72	
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	65	65	65	61	
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	55	55	55	52	
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	47	47	47	44	
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	41	41	41	38	
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	36	36	36	33	
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	32	32	32	29	
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	28	28	28	26	
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	23	23	23	21	
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18046	18046	18046
5°	18179	18068	18004
10°	18149	18019	17940
15°	18028	17930	17832
20°	17909	17807	17673
25°	17696	17574	17400
30°	17368	17277	17058
35°	16914	16798	16586
40°	16373	16270	16083
45°	15926	15814	15657
50°	15354	15256	15108
55°	14560	14367	14256
60°	13254	12874	12812
65°	11677	11191	11153
70°	10081	9665	9665
75°	8677	8555	8434
80°	7651	7741	7561
85°	5992	6531	6531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	2.7
10°-20°	528.1	7.6
20°-30°	791.1	11.4
30°-40°	927.9	13.4
40°-50°	930.8	13.4
50°-60°	794.0	11.4
60°-70°	517.8	7.5
70°-80°	259.8	3.7
80°-90°	71.9	1.0
90°-100°	142.1	2.0
100°-110°	404.2	5.8
110°-120°	387.3	5.6
120°-130°	306.6	4.4
130°-140°	246.0	3.5
140°-150°	192.6	2.8
150°-160°	140.9	2.0
160°-170°	87.3	1.3
170°-180°	29.6	0.4
0°-30°	1504.1	21.7
0°-40°	2432.0	35.0
0°-60°	4156.8	59.9
0°-90°	5006.3	72.1
90°-120°	933.6	13.4
90°-150°	1678.9	24.2
90°-180°	1937.0	27.9
0°-180°	6943.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1963	1944	1951	1944	1944	186
15°	1887	1869	1877	1870	1867	532
25°	1738	1718	1726	1711	1709	799
35°	1502	1487	1491	1474	1473	938
45°	1221	1212	1212	1200	1200	940
55°	905	902	893	888	886	804
65°	535	525	513	509	511	534
75°	243	243	240	238	237	264
85°	57	62	62	62	62	66
90°	0	0	0	0	0	3
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

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CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1968.4	1952.3	1956.0	1953.1	1945.0
5°	1962.9	1944.4	1950.9	1944.0	1944.0
7.5°	1949.5	1929.4	1935.8	1928.9	1928.6
10°	1937.2	1917.0	1923.4	1916.6	1914.9
12.5°	1919.3	1899.2	1907.0	1898.8	1898.4
15°	1887.4	1869.0	1877.2	1870.2	1866.9
17.5°	1851.4	1831.3	1841.2	1831.5	1830.2
20°	1824.0	1803.9	1813.7	1800.0	1800.0
22.5°	1791.1	1771.0	1782.2	1764.4	1764.4
25°	1738.3	1718.2	1726.3	1710.8	1709.2
27.5°	1675.6	1655.8	1664.2	1646.8	1646.4
30°	1630.3	1611.9	1621.7	1602.8	1601.2
32.5°	1580.9	1563.8	1571.0	1552.1	1550.4
35°	1501.7	1486.6	1491.4	1474.3	1472.6
37.5°	1418.4	1403.0	1408.5	1393.7	1393.0
40°	1359.4	1349.4	1350.9	1338.8	1335.4
42.5°	1304.6	1293.2	1294.6	1282.6	1282.0
45°	1220.6	1212.2	1212.0	1200.0	1200.0
47.5°	1131.4	1125.1	1123.2	1113.3	1112.9
50°	1069.7	1064.7	1062.9	1054.3	1052.6
52.5°	1005.3	1002.9	997.0	989.8	989.5
55°	905.2	901.8	893.2	888.0	886.3
57.5°	796.5	789.8	780.0	772.5	773.8
60°	718.3	711.6	697.7	694.3	694.3
62.5°	642.9	634.8	620.9	616.2	618.9
65°	534.9	524.8	512.6	509.2	510.9
67.5°	436.8	427.8	414.5	414.5	413.1
70°	373.7	368.7	358.3	358.3	358.3
72.5°	317.5	315.1	307.5	307.5	306.2
75°	243.4	243.4	240.0	238.2	236.6
77.5°	182.4	183.1	181.4	179.6	176.6
80°	144.0	147.4	145.7	144.0	142.3
82.5°	108.3	111.7	111.4	108.3	108.0
85°	56.6	61.6	61.7	61.7	61.7
87.5°	15.1	20.4	21.9	22.0	23.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

TEST NUMBER: P523660

CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)