

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: P523816

Luminaire Tested: **SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523816
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5006.3 lumens
Efficiency: N/A
Efficacy: 89.7 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: Direct

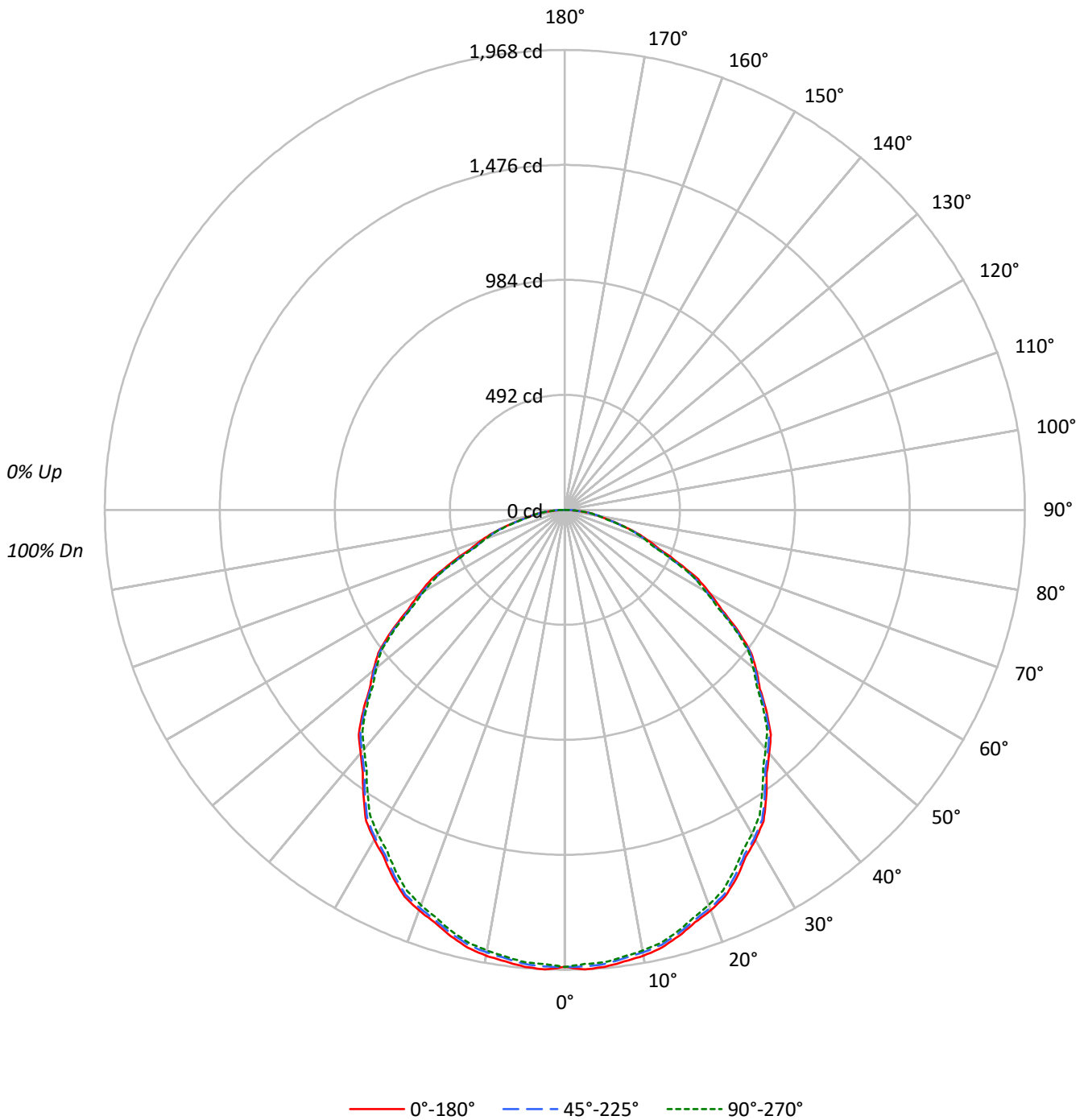
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53	
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26	

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	3.7
10°-20°	528.1	10.5
20°-30°	791.1	15.8
30°-40°	927.9	18.5
40°-50°	930.8	18.6
50°-60°	794.0	15.9
60°-70°	517.8	10.3
70°-80°	259.8	5.2
80°-90°	71.9	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1504.1	30.0
0°-40°	2432.0	48.6
0°-60°	4156.8	83.0
0°-90°	5006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5006.3	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	69
90°	0	0	0	0	0	



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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

(END OF REPORT)