

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: P523817

Luminaire Tested: **SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523817
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5097.9 lumens
Efficiency: N/A
Efficacy: 91.4 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

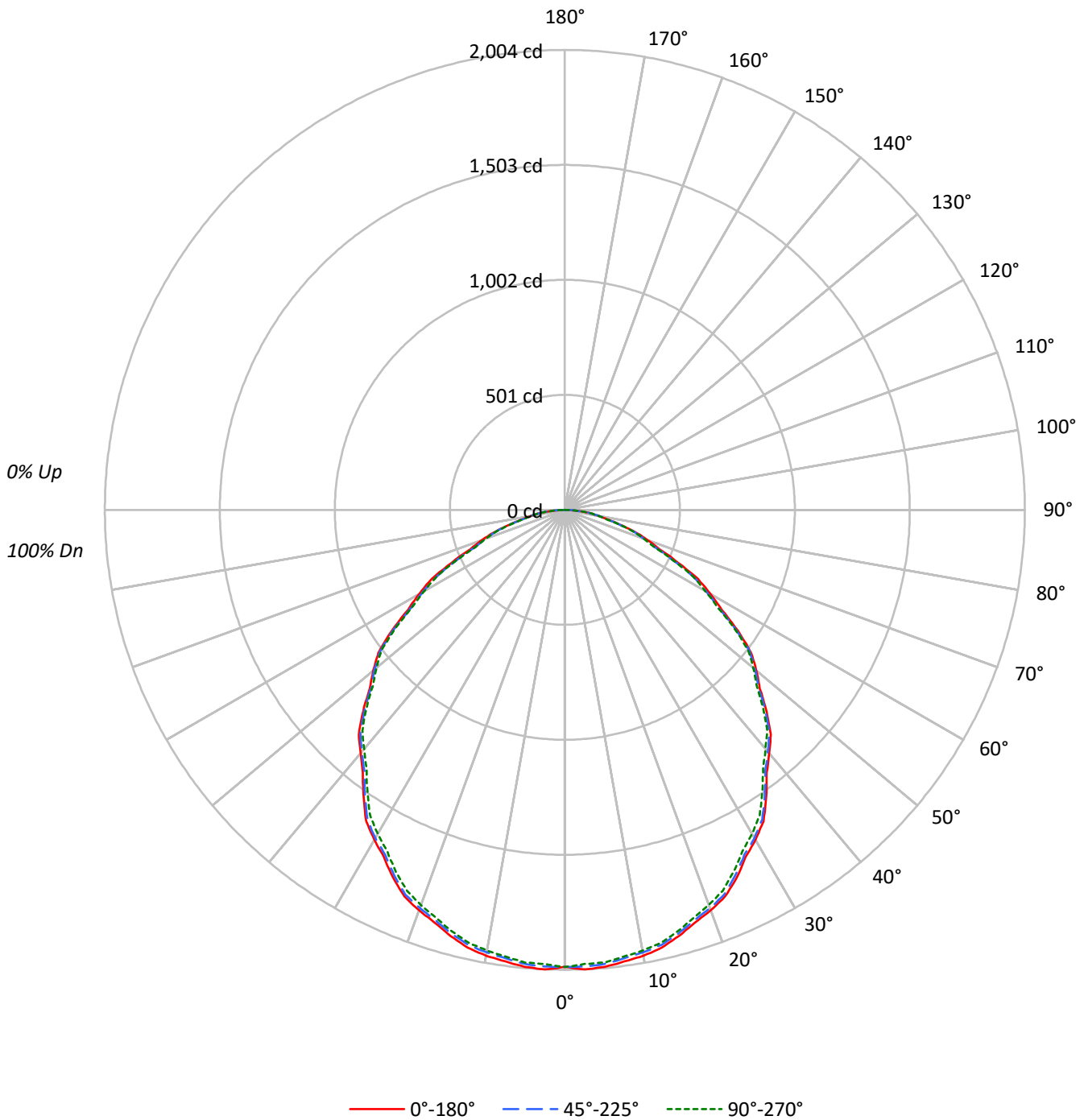
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18377	18377	18377
5°	18512	18399	18334
10°	18480	18349	18268
15°	18358	18258	18158
20°	18237	18133	17996
25°	18020	17895	17717
30°	17686	17593	17371
35°	17224	17105	16889
40°	16672	16568	16379
45°	16217	16104	15944
50°	15635	15535	15384
55°	14826	14630	14517
60°	13496	13110	13046
65°	11889	11396	11357
70°	10267	9841	9841
75°	8837	8712	8587
80°	7789	7885	7699
85°	6097	6648	6648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	3.7
10°-20°	537.8	10.5
20°-30°	805.5	15.8
30°-40°	944.8	18.5
40°-50°	947.8	18.6
50°-60°	808.5	15.9
60°-70°	527.3	10.3
70°-80°	264.5	5.2
80°-90°	73.2	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°	1531.7	30.0
0°-40°	2476.5	48.6
0°-60°	4232.8	83.0
0°-90°	5097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5097.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1999	1980	1987	1980	1980	190
15°	1922	1903	1912	1904	1901	542
25°	1770	1750	1758	1742	1740	814
35°	1529	1514	1519	1501	1500	955
45°	1243	1234	1234	1222	1222	957
55°	922	918	910	904	902	819
65°	545	534	522	518	520	544
75°	248	248	244	243	241	269
85°	58	63	63	63	63	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.8	1991.8	1991.8	1991.8	1991.8
2.5°	2004.4	1988.0	1991.8	1988.8	1980.6
5°	1998.8	1980.0	1986.6	1979.6	1979.6
7.5°	1985.2	1964.7	1971.2	1964.2	1963.9
10°	1972.6	1952.1	1958.6	1951.6	1949.9
12.5°	1954.4	1934.0	1941.9	1933.5	1933.1
15°	1922.0	1903.2	1911.5	1904.4	1901.0
17.5°	1885.3	1864.8	1874.8	1865.0	1863.7
20°	1857.4	1836.9	1846.9	1832.9	1832.9
22.5°	1823.9	1803.4	1814.8	1796.6	1796.6
25°	1770.1	1749.6	1757.9	1742.1	1740.4
27.5°	1706.2	1686.1	1694.7	1676.9	1676.5
30°	1660.1	1641.4	1651.4	1632.2	1630.5
32.5°	1609.9	1592.4	1599.7	1580.5	1578.8
35°	1529.2	1513.8	1518.7	1501.2	1499.5
37.5°	1444.4	1428.7	1434.2	1419.2	1418.5
40°	1384.3	1374.1	1375.6	1363.3	1359.9
42.5°	1328.5	1316.8	1318.3	1306.1	1305.4
45°	1242.9	1234.4	1234.2	1222.0	1222.0
47.5°	1152.1	1145.7	1143.8	1133.6	1133.3
50°	1089.3	1084.2	1082.3	1073.5	1071.8
52.5°	1023.7	1021.3	1015.3	1007.9	1007.6
55°	921.7	918.3	909.5	904.2	902.5
57.5°	811.0	804.2	794.3	786.6	788.0
60°	731.4	724.6	710.5	707.0	707.0
62.5°	654.6	646.4	632.3	627.5	630.2
65°	544.6	534.4	522.0	518.5	520.2
67.5°	444.8	435.6	422.1	422.1	420.7
70°	380.6	375.4	364.8	364.8	364.8
72.5°	323.3	320.9	313.2	313.1	311.8
75°	247.9	247.9	244.4	242.6	240.9
77.5°	185.7	186.4	184.7	182.9	179.8
80°	146.6	150.0	148.4	146.6	144.9
82.5°	110.3	113.7	113.5	110.3	110.0
85°	57.6	62.7	62.8	62.8	62.8
87.5°	15.4	20.8	22.3	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)