

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: P523815

Luminaire Tested: **SQ4-PP3-0U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523815
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

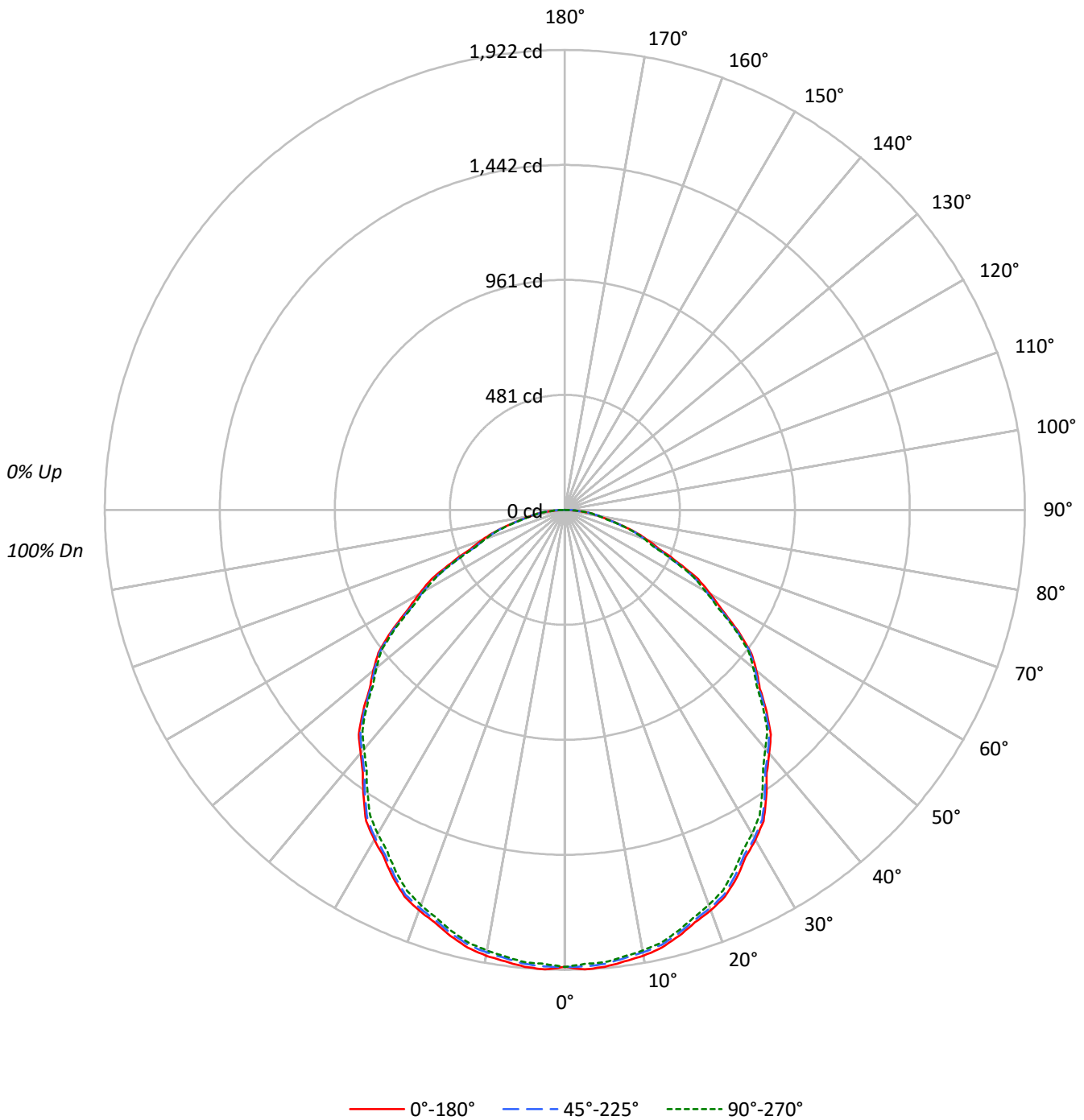
Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	17624	17624	17624
5°	17753	17645	17583
10°	17723	17598	17519
15°	17606	17510	17414
20°	17489	17390	17259
25°	17282	17161	16991
30°	16961	16872	16658
35°	16517	16405	16197
40°	15990	15888	15707
45°	15553	15443	15291
50°	14995	14899	14754
55°	14218	14030	13922
60°	12944	12573	12511
65°	11402	10929	10892
70°	9846	9439	9439
75°	8473	8356	8235
80°	7470	7561	7385
85°	5843	6383	6383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.7
10°-20°	515.7	10.5
20°-30°	772.5	15.8
30°-40°	906.1	18.5
40°-50°	909.0	18.6
50°-60°	775.4	15.9
60°-70°	505.7	10.3
70°-80°	253.7	5.2
80°-90°	70.2	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°	1468.9	30.0
0°-40°	2375.0	48.6
0°-60°	4059.4	83.0
0°-90°	4889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1917	1899	1905	1898	1898	182
15°	1843	1825	1833	1826	1823	520
25°	1698	1678	1686	1671	1669	781
35°	1466	1452	1456	1440	1438	916
45°	1192	1184	1184	1172	1172	918
55°	884	881	872	867	866	786
65°	522	512	501	497	499	521
75°	238	238	234	233	231	258
85°	55	60	60	60	60	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1922.2	1906.5	1910.2	1907.3	1899.5
5°	1916.9	1898.9	1905.2	1898.5	1898.5
7.5°	1903.8	1884.2	1890.4	1883.7	1883.4
10°	1891.8	1872.1	1878.4	1871.6	1870.0
12.5°	1874.4	1854.7	1862.3	1854.3	1853.9
15°	1843.2	1825.2	1833.2	1826.4	1823.1
17.5°	1808.1	1788.4	1798.0	1788.6	1787.3
20°	1781.3	1761.6	1771.2	1757.8	1757.8
22.5°	1749.1	1729.5	1740.4	1723.0	1723.0
25°	1697.6	1677.9	1685.8	1670.7	1669.1
27.5°	1636.3	1617.0	1625.2	1608.2	1607.8
30°	1592.1	1574.1	1583.7	1565.3	1563.6
32.5°	1543.9	1527.2	1534.2	1515.7	1514.1
35°	1466.5	1451.8	1456.5	1439.7	1438.1
37.5°	1385.2	1370.1	1375.5	1361.1	1360.4
40°	1327.6	1317.8	1319.2	1307.4	1304.1
42.5°	1274.0	1262.9	1264.3	1252.6	1251.9
45°	1192.0	1183.8	1183.6	1171.9	1171.9
47.5°	1104.9	1098.7	1096.9	1087.2	1086.8
50°	1044.7	1039.7	1038.0	1029.6	1027.9
52.5°	981.7	979.4	973.7	966.6	966.3
55°	883.9	880.7	872.2	867.2	865.5
57.5°	777.8	771.3	761.7	754.4	755.7
60°	701.5	694.9	681.4	678.0	678.0
62.5°	627.8	619.9	606.4	601.7	604.4
65°	522.3	512.5	500.6	497.3	498.9
67.5°	426.6	417.7	404.8	404.8	403.5
70°	365.0	360.0	349.9	349.9	349.9
72.5°	310.0	307.8	300.3	300.3	299.0
75°	237.7	237.7	234.4	232.7	231.0
77.5°	178.1	178.8	177.1	175.4	172.4
80°	140.6	143.9	142.3	140.6	139.0
82.5°	105.8	109.1	108.8	105.8	105.5
85°	55.2	60.2	60.3	60.3	60.3
87.5°	14.7	20.0	21.4	21.5	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)