

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

Brand: CORELITE

Report Number: P689005

Luminaire Tested: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P689005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4987.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

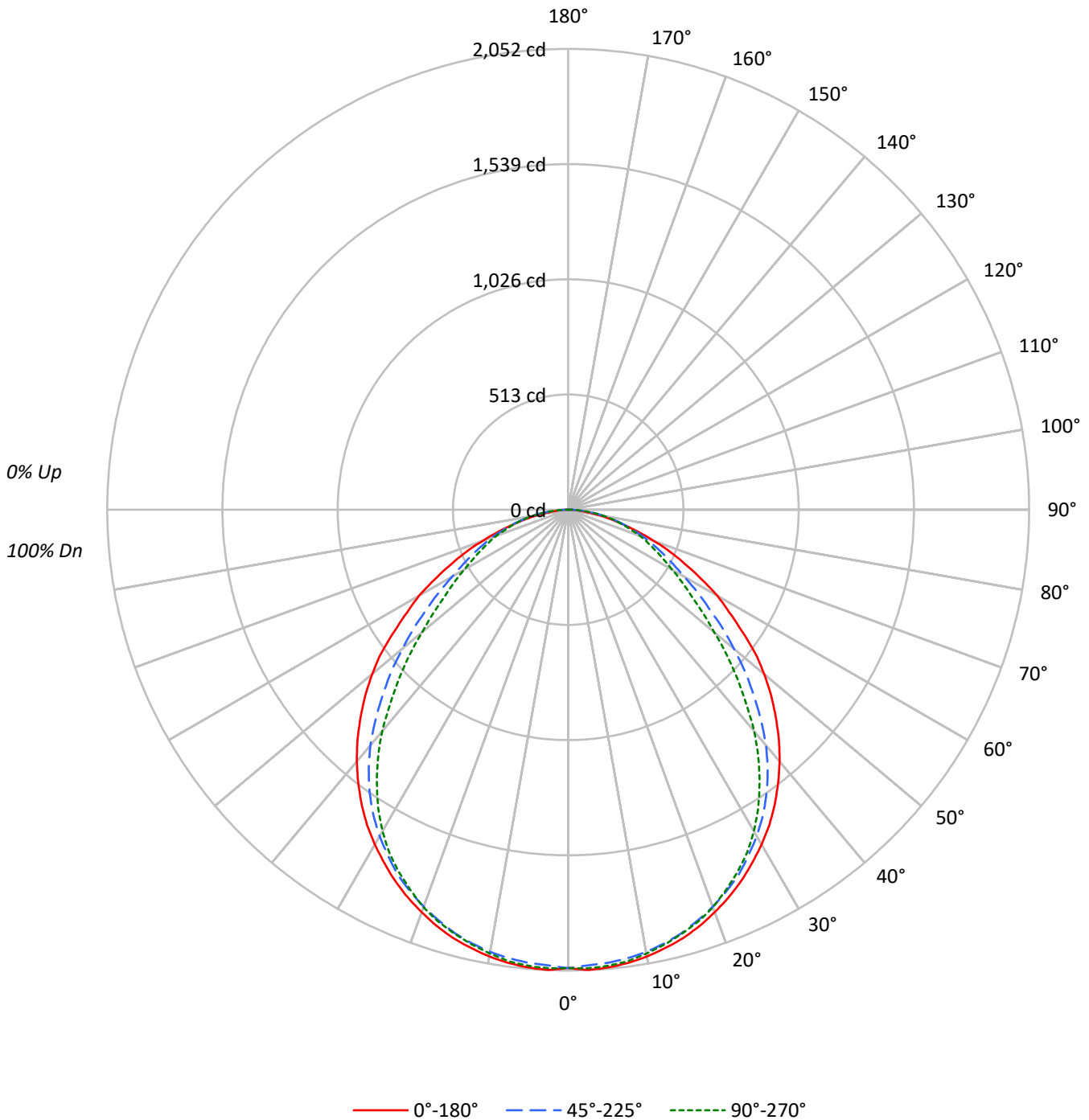
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P689005

CATALOG NUMBER: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P689005

CATALOG NUMBER: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_4000K

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19650	19650	19650
5°	19776	19573	19699
10°	19748	19543	19620
15°	19690	19455	19480
20°	19541	19271	19299
25°	19368	19062	18922
30°	19132	18665	18374
35°	18839	18099	17452
40°	18398	17211	16188
45°	17788	15894	14501
50°	17053	14420	12692
55°	15853	12813	11229
60°	14751	11466	10305
65°	13087	10638	9741
70°	11372	10117	9601
75°	9370	9563	9173
80°	7418	9020	9020
85°	5501	8119	8406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17788 cd/sqm

TEST NUMBER: P689005

CATALOG NUMBER: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	3.9
10°-20°	553.1	11.1
20°-30°	828.5	16.6
30°-40°	962.6	19.3
40°-50°	908.2	18.2
50°-60°	708.6	14.2
60°-70°	481.0	9.6
70°-80°	270.9	5.4
80°-90°	80.4	1.6
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°	1575.3	31.6
0°-40°	2537.9	50.9
0°-60°	4154.7	83.3
0°-90°	4987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2046	2041	2025	2041	2038	194
15°	1976	1968	1952	1962	1954	557
25°	1823	1815	1794	1789	1781	840
35°	1603	1587	1540	1506	1485	1001
45°	1306	1267	1167	1094	1065	1007
55°	944	889	763	690	669	848
65°	574	522	467	438	428	574
75°	252	262	257	247	247	274
85°	50	71	74	74	76	60
90°	0	0	0	0	0	

TEST NUMBER: P689005

CATALOG NUMBER: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.1	2041.1	2041.1	2041.1	2041.1
2.5°	2051.6	2046.3	2030.6	2046.3	2043.7
5°	2046.3	2041.1	2025.3	2041.1	2038.4
7.5°	2035.8	2033.2	2014.8	2030.6	2027.9
10°	2020.1	2017.5	1999.1	2012.2	2007.0
12.5°	1999.1	1996.5	1978.1	1988.6	1983.3
15°	1975.5	1967.6	1951.9	1962.4	1954.5
17.5°	1944.0	1936.1	1917.8	1925.6	1923.0
20°	1907.3	1899.4	1881.0	1888.9	1883.7
22.5°	1867.9	1860.0	1839.1	1841.7	1833.8
25°	1823.3	1815.4	1794.5	1789.2	1781.3
27.5°	1773.5	1768.2	1736.7	1731.5	1723.6
30°	1721.0	1713.1	1679.0	1668.5	1652.8
32.5°	1665.9	1650.2	1613.4	1592.4	1574.1
35°	1602.9	1587.2	1540.0	1505.9	1484.9
37.5°	1534.7	1511.1	1458.7	1411.4	1390.4
40°	1463.9	1437.7	1369.5	1306.5	1288.1
42.5°	1387.8	1356.3	1269.8	1204.2	1172.7
45°	1306.5	1267.1	1167.4	1094.0	1065.1
47.5°	1225.2	1175.3	1067.8	989.0	957.6
50°	1138.6	1078.2	962.8	878.9	847.4
52.5°	1049.4	983.8	865.7	779.2	755.6
55°	944.5	889.4	763.4	690.0	669.0
57.5°	850.0	789.7	679.5	616.5	600.8
60°	766.1	692.6	595.5	548.3	535.2
62.5°	669.0	603.4	527.3	490.6	477.5
65°	574.5	522.1	467.0	438.1	427.6
67.5°	493.2	448.6	411.9	388.3	383.0
70°	404.0	380.4	359.4	341.1	341.1
72.5°	327.9	320.1	306.9	296.5	288.6
75°	251.9	262.3	257.1	246.6	246.6
77.5°	191.5	207.3	209.9	204.6	207.3
80°	133.8	157.4	162.7	160.0	162.7
82.5°	84.0	112.8	118.1	118.1	120.7
85°	49.8	70.8	73.5	73.5	76.1
87.5°	21.0	34.1	36.7	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)