

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: P688627

Luminaire Tested: SQ4R-PW1-125D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688627  
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-835-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4677.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

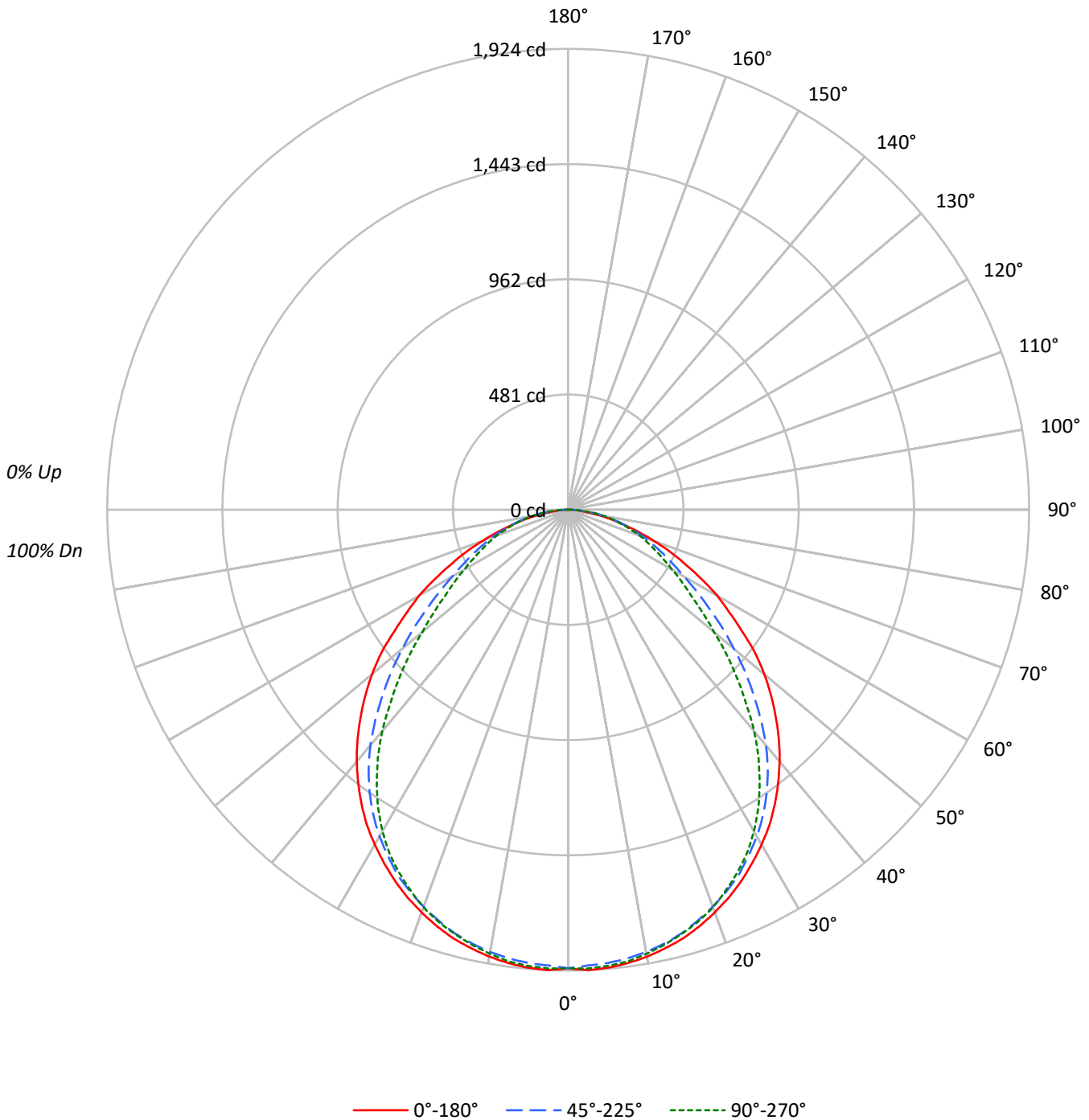
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688627

CATALOG NUMBER: SQ4R-PW1-125D-835-1-UNV-STD-W-4

### Luminous Intensity Polar Plot



TEST NUMBER: P688627

CATALOG NUMBER: SQ4R-PW1-125D-835-1-UNV-STD-W-4

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18432	18432	18432
5°	18549	18359	18478
10°	18523	18331	18403
15°	18468	18248	18272
20°	18329	18077	18101
25°	18167	17879	17748
30°	17945	17508	17234
35°	17670	16977	16369
40°	17257	16143	15184
45°	16685	14909	13603
50°	15996	13526	11904
55°	14870	12020	10532
60°	13834	10756	9666
65°	12276	9978	9137
70°	10668	9489	9005
75°	8786	8972	8604
80°	6958	8460	8460
85°	5170	7611	7887

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16685 cd/sqm

TEST NUMBER: P688627

CATALOG NUMBER: SQ4R-PW1-125D-835-1-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.6	3.9
10°-20°	518.8	11.1
20°-30°	777.1	16.6
30°-40°	902.9	19.3
40°-50°	851.9	18.2
50°-60°	664.6	14.2
60°-70°	451.2	9.6
70°-80°	254.1	5.4
80°-90°	75.4	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°	1477.5	31.6
0°-40°	2380.5	50.9
0°-60°	3897.0	83.3
0°-90°	4677.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1919	1914	1900	1914	1912	182
15°	1853	1846	1831	1841	1833	522
25°	1710	1703	1683	1678	1671	788
35°	1504	1489	1444	1412	1393	939
45°	1226	1188	1095	1026	999	945
55°	886	834	716	647	628	796
65°	539	490	438	411	401	538
75°	236	246	241	231	231	257
85°	47	66	69	69	71	57
90°	0	0	0	0	0	

TEST NUMBER: P688627

CATALOG NUMBER: SQ4R-PW1-125D-835-1-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1914.5	1914.5	1914.5	1914.5	1914.5
2.5°	1924.3	1919.4	1904.6	1919.4	1916.9
5°	1919.4	1914.5	1899.7	1914.5	1912.0
7.5°	1909.5	1907.1	1889.9	1904.6	1902.2
10°	1894.8	1892.3	1875.1	1887.4	1882.5
12.5°	1875.1	1872.6	1855.4	1865.2	1860.3
15°	1852.9	1845.6	1830.8	1840.6	1833.3
17.5°	1823.4	1816.0	1798.8	1806.2	1803.7
20°	1789.0	1781.6	1764.4	1771.7	1766.8
22.5°	1752.0	1744.7	1725.0	1727.4	1720.1
25°	1710.2	1702.8	1683.1	1678.2	1670.8
27.5°	1663.5	1658.5	1629.0	1624.1	1616.7
30°	1614.2	1606.9	1574.9	1565.0	1550.3
32.5°	1562.6	1547.8	1513.4	1493.7	1476.4
35°	1503.5	1488.8	1444.5	1412.5	1392.8
37.5°	1439.5	1417.4	1368.2	1323.9	1304.2
40°	1373.1	1348.5	1284.5	1225.5	1208.2
42.5°	1301.7	1272.2	1191.0	1129.5	1100.0
45°	1225.5	1188.5	1095.0	1026.1	999.1
47.5°	1149.2	1102.4	1001.5	927.7	898.2
50°	1068.0	1011.4	903.1	824.3	794.8
52.5°	984.3	922.8	812.0	730.8	708.7
55°	885.9	834.2	716.1	647.2	627.5
57.5°	797.3	740.7	637.3	578.3	563.5
60°	718.5	649.6	558.6	514.3	502.0
62.5°	627.5	566.0	494.6	460.2	447.9
65°	538.9	489.7	438.0	410.9	401.1
67.5°	462.6	420.8	386.3	364.2	359.3
70°	379.0	356.8	337.1	319.9	319.9
72.5°	307.6	300.2	287.9	278.1	270.7
75°	236.2	246.1	241.2	231.3	231.3
77.5°	179.6	194.4	196.9	191.9	194.4
80°	125.5	147.6	152.6	150.1	152.6
82.5°	78.7	105.8	110.7	110.7	113.2
85°	46.8	66.4	68.9	68.9	71.4
87.5°	19.7	32.0	34.5	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)