

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: P688628

Luminaire Tested: SQ4R-PW1-125D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688628
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-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4807.9 lumens
Efficiency: N/A
Efficacy: 97.1 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

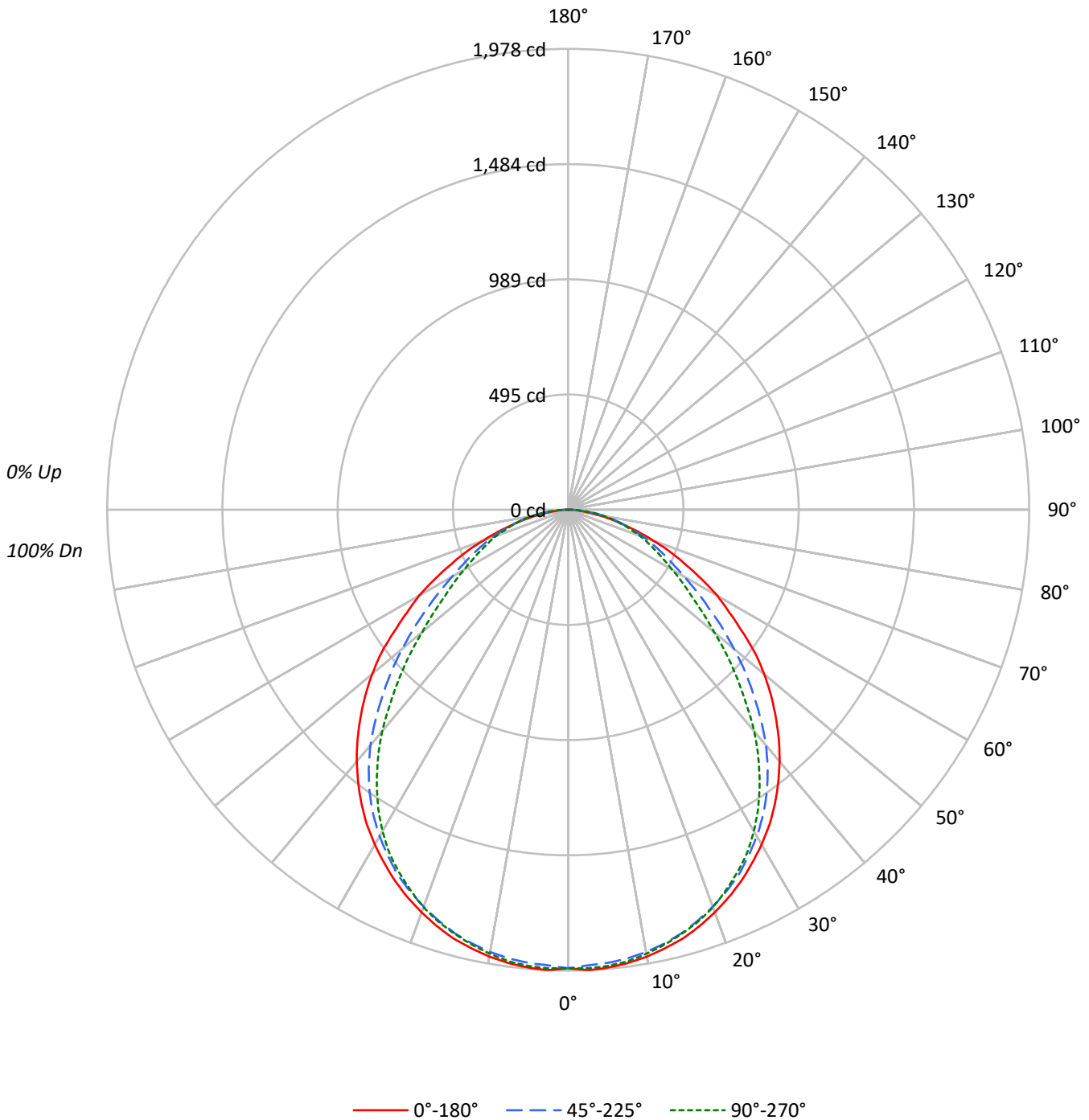
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	18945	18945	18945
5°	19065	18870	18993
10°	19038	18841	18915
15°	18983	18756	18781
20°	18839	18580	18605
25°	18673	18377	18243
30°	18445	17995	17713
35°	18163	17449	16825
40°	17737	16593	15608
45°	17150	15324	13981
50°	16441	13902	12237
55°	15283	12354	10826
60°	14222	11054	9935
65°	12618	10256	9392
70°	10964	9753	9255
75°	9031	9221	8845
80°	7152	8693	8693
85°	5313	7821	8097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	3.9
10°-20°	533.3	11.1
20°-30°	798.7	16.6
30°-40°	928.0	19.3
40°-50°	875.6	18.2
50°-60°	683.1	14.2
60°-70°	463.8	9.6
70°-80°	261.2	5.4
80°-90°	77.5	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°	1518.7	31.6
0°-40°	2446.7	50.9
0°-60°	4005.5	83.3
0°-90°	4807.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1973	1968	1953	1968	1965	187
15°	1905	1897	1882	1892	1884	537
25°	1758	1750	1730	1725	1717	810
35°	1545	1530	1485	1452	1432	965
45°	1260	1222	1126	1055	1027	971
55°	910	857	736	665	645	818
65°	554	503	450	422	412	553
75°	243	253	248	238	238	264
85°	48	68	71	71	73	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.8	1967.8	1967.8	1967.8	1967.8
2.5°	1977.9	1972.8	1957.7	1972.8	1970.3
5°	1972.8	1967.8	1952.6	1967.8	1965.3
7.5°	1962.7	1960.2	1942.5	1957.7	1955.1
10°	1947.5	1945.0	1927.3	1940.0	1934.9
12.5°	1927.3	1924.8	1907.1	1917.2	1912.1
15°	1904.6	1897.0	1881.8	1891.9	1884.3
17.5°	1874.2	1866.6	1848.9	1856.5	1854.0
20°	1838.8	1831.2	1813.5	1821.1	1816.0
22.5°	1800.8	1793.3	1773.0	1775.6	1768.0
25°	1757.9	1750.3	1730.0	1725.0	1717.4
27.5°	1709.8	1704.7	1674.4	1669.3	1661.7
30°	1659.2	1651.6	1618.7	1608.6	1593.4
32.5°	1606.1	1590.9	1555.5	1535.3	1517.6
35°	1545.4	1530.2	1484.7	1451.8	1431.6
37.5°	1479.6	1456.9	1406.3	1360.8	1340.5
40°	1411.3	1386.0	1320.3	1259.6	1241.9
42.5°	1338.0	1307.6	1224.2	1160.9	1130.6
45°	1259.6	1221.6	1125.5	1054.7	1026.9
47.5°	1181.2	1133.1	1029.4	953.5	923.2
50°	1097.7	1039.5	928.2	847.3	817.0
52.5°	1011.7	948.5	834.7	751.2	728.4
55°	910.5	857.4	736.0	665.2	645.0
57.5°	819.5	761.3	655.1	594.4	579.2
60°	738.6	667.7	574.1	528.6	516.0
62.5°	645.0	581.7	508.4	473.0	460.3
65°	553.9	503.3	450.2	422.4	412.3
67.5°	475.5	432.5	397.1	374.3	369.3
70°	389.5	366.7	346.5	328.8	328.8
72.5°	316.2	308.6	295.9	285.8	278.2
75°	242.8	252.9	247.9	237.8	237.8
77.5°	184.6	199.8	202.3	197.3	199.8
80°	129.0	151.8	156.8	154.3	156.8
82.5°	80.9	108.8	113.8	113.8	116.3
85°	48.1	68.3	70.8	70.8	73.3
87.5°	20.2	32.9	35.4	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)