

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: P688626

Luminaire Tested: SQ4R-PW1-125D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688626
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-830-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4572.3 lumens
Efficiency: N/A
Efficacy: 92.4 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

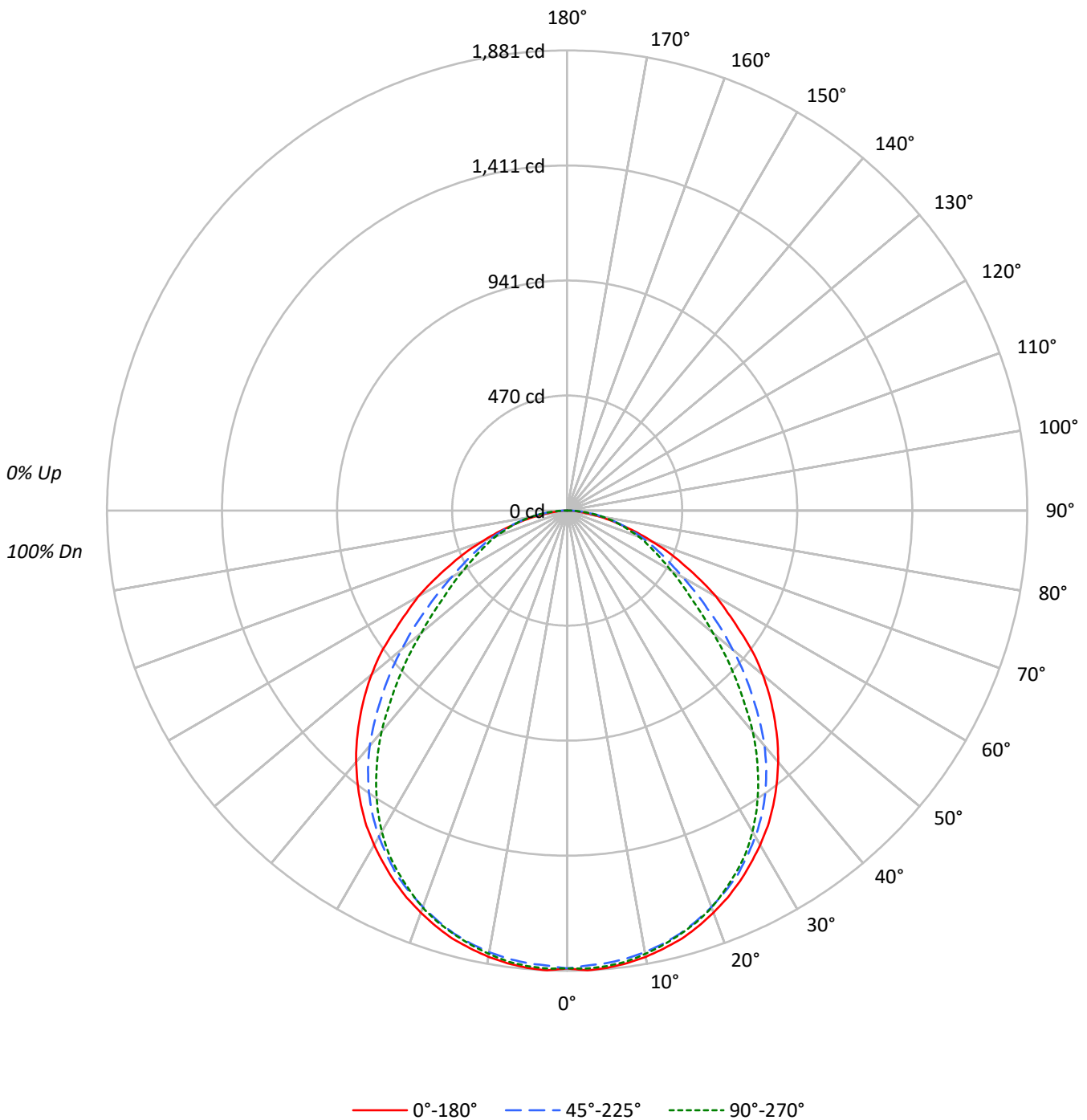
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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°	18016	18016	18016
5°	18131	17945	18061
10°	18106	17917	17989
15°	18052	17837	17861
20°	17916	17669	17693
25°	17758	17476	17349
30°	17541	17113	16845
35°	17272	16594	16000
40°	16868	15780	14842
45°	16308	14574	13297
50°	15635	13222	11636
55°	14534	11748	10296
60°	13524	10513	9448
65°	12001	9752	8932
70°	10426	9275	8802
75°	8589	8767	8410
80°	6803	8266	8266
85°	5048	7434	7710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16308 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.9
10°-20°	507.1	11.1
20°-30°	759.6	16.6
30°-40°	882.6	19.3
40°-50°	832.7	18.2
50°-60°	649.7	14.2
60°-70°	441.0	9.6
70°-80°	248.3	5.4
80°-90°	73.7	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°	1444.3	31.6
0°-40°	2326.8	50.9
0°-60°	3809.2	83.3
0°-90°	4572.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1876	1871	1857	1871	1869	178
15°	1811	1804	1790	1799	1792	511
25°	1672	1664	1645	1640	1633	770
35°	1470	1455	1412	1381	1361	918
45°	1198	1162	1070	1003	977	924
55°	866	815	700	633	613	778
65°	527	479	428	402	392	526
75°	231	240	236	226	226	251
85°	46	65	67	67	70	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1881.0	1876.1	1861.7	1876.1	1873.7
5°	1876.1	1871.3	1856.9	1871.3	1868.9
7.5°	1866.5	1864.1	1847.3	1861.7	1859.3
10°	1852.1	1849.7	1832.8	1844.9	1840.1
12.5°	1832.8	1830.4	1813.6	1823.2	1818.4
15°	1811.2	1804.0	1789.6	1799.2	1792.0
17.5°	1782.3	1775.1	1758.3	1765.5	1763.1
20°	1748.7	1741.4	1724.6	1731.8	1727.0
22.5°	1712.6	1705.4	1686.1	1688.5	1681.3
25°	1671.7	1664.5	1645.2	1640.4	1633.2
27.5°	1626.0	1621.2	1592.3	1587.5	1580.3
30°	1577.9	1570.7	1539.4	1529.8	1515.3
32.5°	1527.4	1512.9	1479.3	1460.0	1443.2
35°	1469.6	1455.2	1411.9	1380.7	1361.4
37.5°	1407.1	1385.5	1337.4	1294.1	1274.8
40°	1342.2	1318.1	1255.6	1197.8	1181.0
42.5°	1272.4	1243.5	1164.2	1104.0	1075.2
45°	1197.8	1161.8	1070.4	1003.0	976.6
47.5°	1123.3	1077.6	979.0	906.8	877.9
50°	1043.9	988.6	882.8	805.8	776.9
52.5°	962.1	902.0	793.8	714.4	692.7
55°	865.9	815.4	699.9	632.6	613.4
57.5°	779.3	724.0	623.0	565.2	550.8
60°	702.4	635.0	546.0	502.7	490.7
62.5°	613.4	553.2	483.5	449.8	437.8
65°	526.8	478.7	428.1	401.7	392.1
67.5°	452.2	411.3	377.6	356.0	351.2
70°	370.4	348.8	329.5	312.7	312.7
72.5°	300.7	293.4	281.4	271.8	264.6
75°	230.9	240.5	235.7	226.1	226.1
77.5°	175.6	190.0	192.4	187.6	190.0
80°	122.7	144.3	149.1	146.7	149.1
82.5°	77.0	103.4	108.2	108.2	110.6
85°	45.7	64.9	67.3	67.3	69.8
87.5°	19.2	31.3	33.7	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)