

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: P689003

Luminaire Tested: SQ4R-PW1-125D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P689003
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4779.3 lumens
Efficiency: N/A
Efficacy: 78.0 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

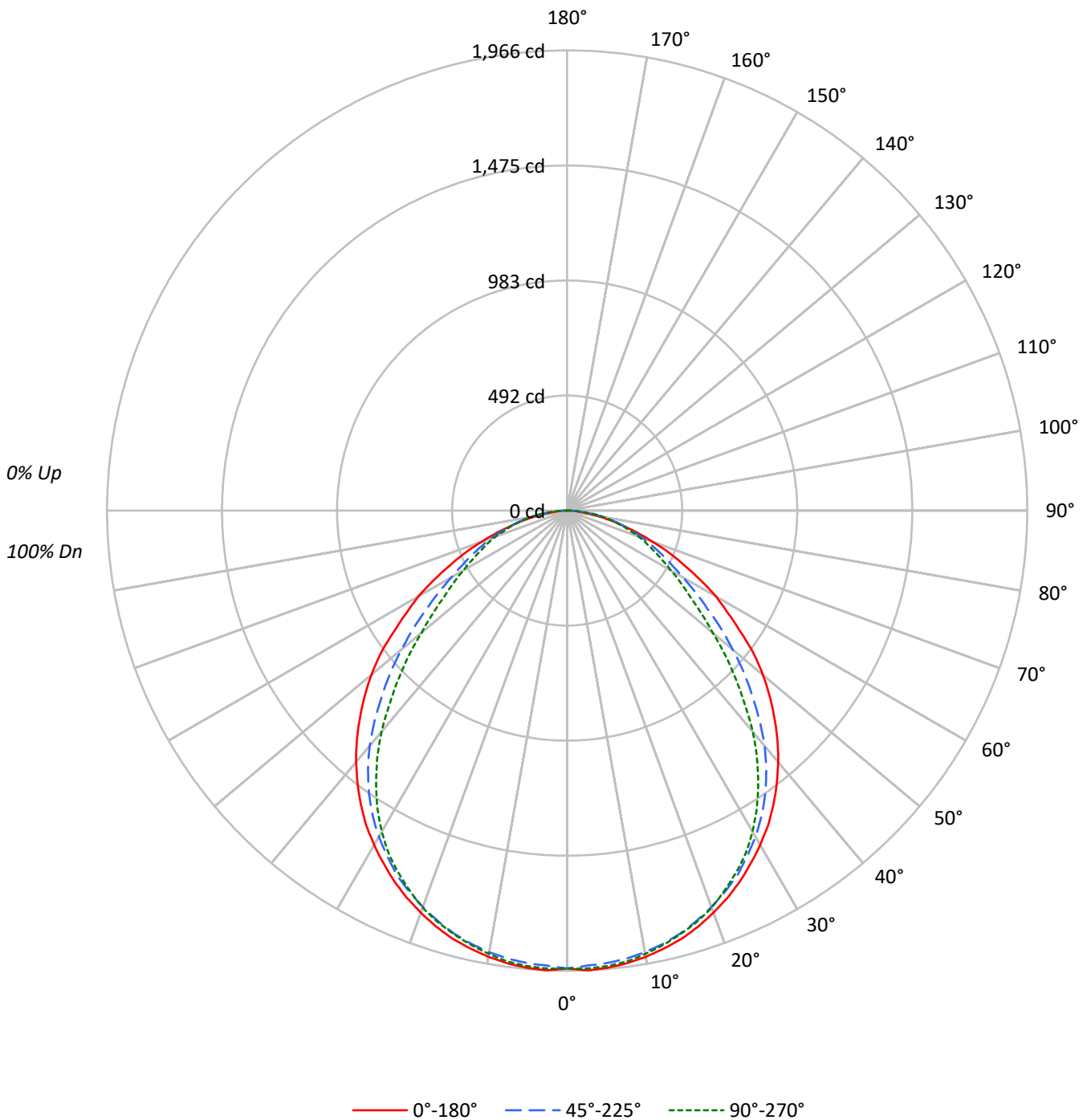
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	18831	18831	18831
5°	18952	18757	18879
10°	18925	18729	18802
15°	18869	18643	18669
20°	18726	18469	18495
25°	18562	18268	18134
30°	18335	17888	17608
35°	18055	17345	16724
40°	17631	16494	15515
45°	17047	15233	13898
50°	16343	13820	12163
55°	15192	12280	10761
60°	14135	10989	9876
65°	12543	10194	9335
70°	10899	9694	9199
75°	8979	9165	8790
80°	7108	8643	8643
85°	5280	7776	8053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	3.9
10°-20°	530.1	11.1
20°-30°	794.0	16.6
30°-40°	922.5	19.3
40°-50°	870.4	18.2
50°-60°	679.1	14.2
60°-70°	461.0	9.6
70°-80°	259.6	5.4
80°-90°	77.1	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°	1509.6	31.6
0°-40°	2432.1	50.9
0°-60°	3981.6	83.3
0°-90°	4779.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4779.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1961	1956	1941	1956	1954	186
15°	1893	1886	1870	1881	1873	534
25°	1747	1740	1720	1715	1707	805
35°	1536	1521	1476	1443	1423	960
45°	1252	1214	1119	1048	1021	965
55°	905	852	732	661	641	813
65°	551	500	448	420	410	550
75°	241	251	246	236	236	263
85°	48	68	70	70	73	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1966.1	1961.1	1946.0	1961.1	1958.5
5°	1961.1	1956.0	1940.9	1956.0	1953.5
7.5°	1951.0	1948.5	1930.9	1946.0	1943.5
10°	1935.9	1933.4	1915.8	1928.4	1923.3
12.5°	1915.8	1913.3	1895.7	1905.7	1900.7
15°	1893.2	1885.6	1870.5	1880.6	1873.1
17.5°	1863.0	1855.5	1837.9	1845.4	1842.9
20°	1827.8	1820.3	1802.7	1810.2	1805.2
22.5°	1790.1	1782.6	1762.4	1765.0	1757.4
25°	1747.4	1739.8	1719.7	1714.7	1707.1
27.5°	1699.6	1694.6	1664.4	1659.4	1651.8
30°	1649.3	1641.8	1609.1	1599.0	1583.9
32.5°	1596.5	1581.4	1546.2	1526.1	1508.5
35°	1536.2	1521.1	1475.8	1443.1	1423.0
37.5°	1470.8	1448.2	1397.9	1352.6	1332.5
40°	1402.9	1377.8	1312.4	1252.1	1234.5
42.5°	1330.0	1299.8	1216.9	1154.0	1123.8
45°	1252.1	1214.3	1118.8	1048.4	1020.8
47.5°	1174.1	1126.4	1023.3	947.8	917.7
50°	1091.2	1033.3	922.7	842.3	812.1
52.5°	1005.7	942.8	829.7	746.7	724.1
55°	905.1	852.3	731.6	661.2	641.1
57.5°	814.6	756.8	651.2	590.8	575.7
60°	734.1	663.7	570.7	525.5	512.9
62.5°	641.1	578.3	505.4	470.2	457.6
65°	550.6	500.3	447.5	419.9	409.8
67.5°	472.7	429.9	394.7	372.1	367.1
70°	387.2	364.6	344.4	326.8	326.8
72.5°	314.3	306.7	294.2	284.1	276.6
75°	241.4	251.4	246.4	236.3	236.3
77.5°	183.5	198.6	201.1	196.1	198.6
80°	128.2	150.9	155.9	153.4	155.9
82.5°	80.5	108.1	113.1	113.1	115.7
85°	47.8	67.9	70.4	70.4	72.9
87.5°	20.1	32.7	35.2	35.2	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)