

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: P688764

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-125D-92765-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX 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: 4730.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

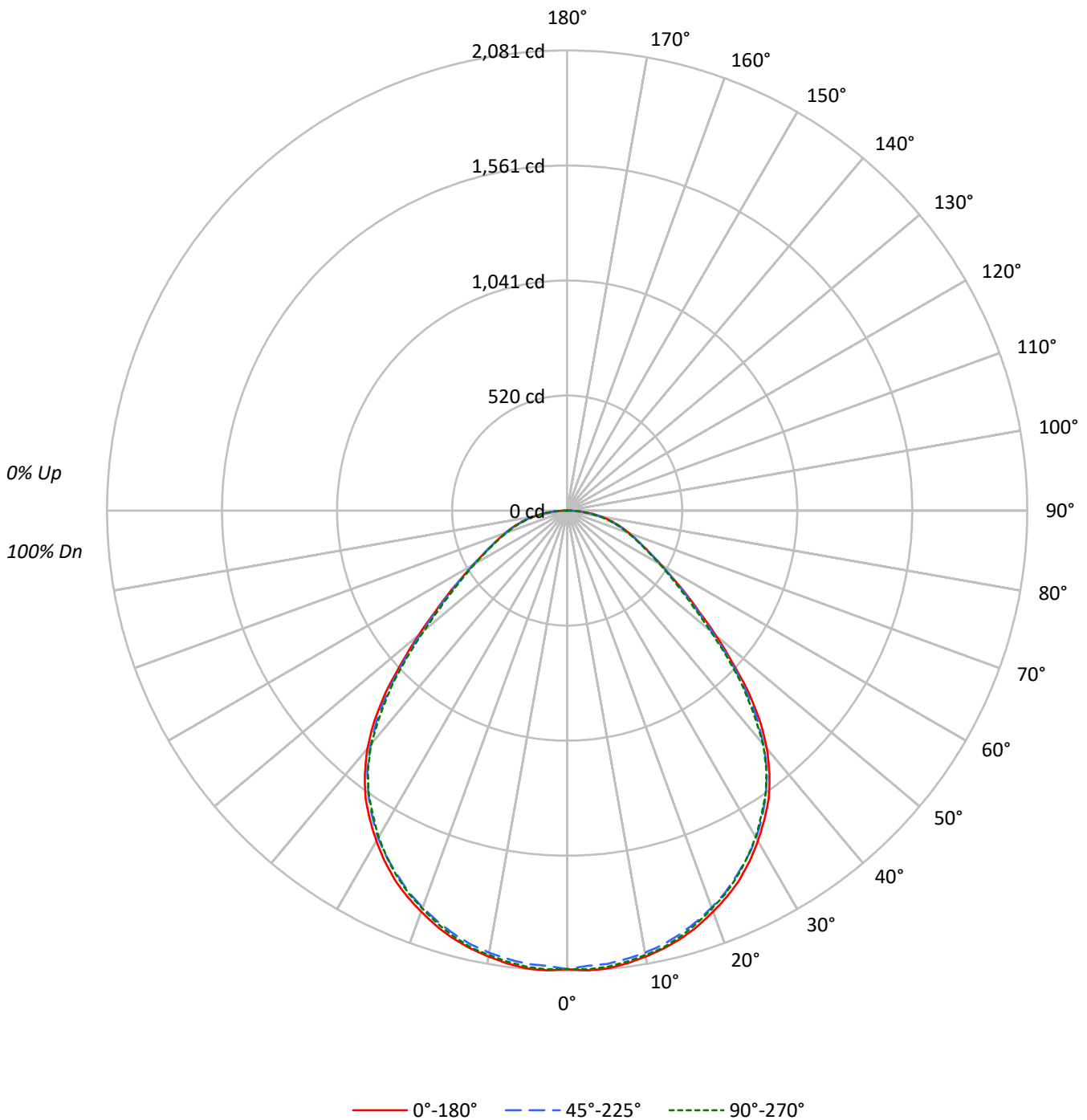
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

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

	0°	45°	90°
0°	19963	19963	19963
5°	20089	19892	20015
10°	20021	19846	19946
15°	19953	19750	19851
20°	19776	19566	19619
25°	19580	19308	19362
30°	19182	19011	18954
35°	18685	18413	18384
40°	17664	17373	17309
45°	15754	15441	15267
50°	13152	12884	12614
55°	10957	10828	10571
60°	9416	9464	9267
65°	8631	8572	8456
70°	8360	8287	8143
75°	8474	8284	8094
80°	8516	8372	8089
85°	8196	8196	7633

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15754 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.7	4.2
10°-20°	561.9	11.9
20°-30°	841.7	17.8
30°-40°	979.4	20.7
40°-50°	871.1	18.4
50°-60°	584.9	12.4
60°-70°	378.1	8.0
70°-80°	235.7	5.0
80°-90°	80.7	1.7
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°	1600.2	33.8
0°-40°	2579.6	54.5
0°-60°	4035.6	85.3
0°-90°	4730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4730.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2079	2074	2058	2074	2071	197
15°	2002	1997	1982	1994	1992	564
25°	1843	1836	1818	1828	1823	847
35°	1590	1582	1567	1567	1564	988
45°	1157	1152	1134	1119	1121	884
55°	653	653	645	635	630	592
65°	379	381	376	374	371	380
75°	228	225	223	223	218	240
85°	74	77	74	72	69	82
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2073.6	2073.6	2073.6	2073.6	2073.6
2.5°	2081.3	2076.2	2060.8	2078.7	2076.2
5°	2078.7	2073.6	2058.3	2073.6	2071.1
7.5°	2065.9	2063.4	2045.5	2063.4	2058.3
10°	2048.0	2048.0	2030.1	2045.5	2040.3
12.5°	2027.5	2025.0	2009.6	2025.0	2022.4
15°	2001.9	1996.8	1981.5	1994.3	1991.7
17.5°	1968.7	1966.1	1948.2	1961.0	1955.9
20°	1930.3	1925.1	1909.8	1920.0	1914.9
22.5°	1889.3	1884.2	1868.8	1876.5	1873.9
25°	1843.2	1835.5	1817.6	1827.9	1822.7
27.5°	1786.9	1784.3	1766.4	1771.5	1766.4
30°	1725.5	1722.9	1710.1	1710.1	1705.0
32.5°	1658.9	1661.5	1641.0	1643.5	1633.3
35°	1589.8	1582.1	1566.7	1566.7	1564.2
37.5°	1502.7	1497.6	1484.8	1482.3	1479.7
40°	1405.5	1400.3	1382.4	1377.3	1377.3
42.5°	1290.2	1285.1	1267.2	1259.5	1249.3
45°	1157.1	1152.0	1134.1	1118.7	1121.3
47.5°	1008.6	1013.8	995.8	983.0	980.5
50°	878.1	875.5	860.2	852.5	842.2
52.5°	752.6	755.2	742.4	737.3	724.5
55°	652.8	652.8	645.1	634.9	629.8
57.5°	563.2	568.3	560.6	555.5	550.4
60°	489.0	491.5	491.5	481.3	481.3
62.5°	427.5	430.1	427.5	422.4	422.4
65°	378.9	381.4	376.3	373.8	371.2
67.5°	335.4	337.9	335.4	332.8	327.7
70°	297.0	297.0	294.4	294.4	289.3
72.5°	263.7	261.1	258.6	258.6	256.0
75°	227.8	225.3	222.7	222.7	217.6
77.5°	192.0	189.4	189.4	184.3	181.8
80°	153.6	153.6	151.0	148.5	145.9
82.5°	117.8	115.2	112.6	110.1	107.5
85°	74.2	76.8	74.2	71.7	69.1
87.5°	33.3	35.8	35.8	35.8	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)