

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: P688767

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688767
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_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5036.1 lumens
Efficiency: N/A
Efficacy: 82.2 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

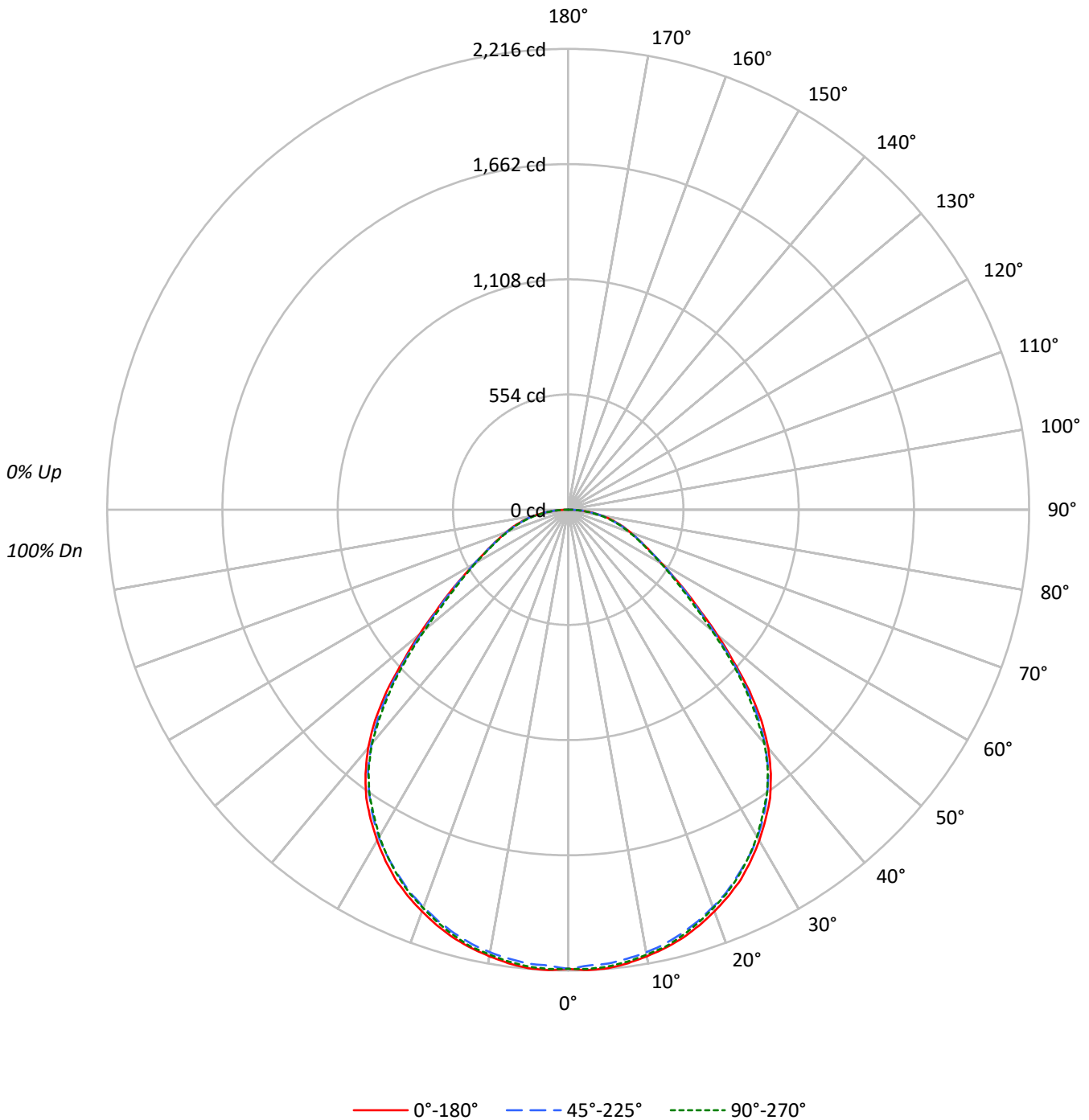
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34		44	38	34		43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21255	21255	21255
5°	21389	21178	21310
10°	21316	21131	21237
15°	21245	21027	21136
20°	21056	20833	20888
25°	20847	20557	20615
30°	20422	20241	20180
35°	19893	19605	19573
40°	18806	18498	18429
45°	16774	16440	16254
50°	14002	13716	13430
55°	11665	11529	11254
60°	10024	10076	9866
65°	9190	9128	9003
70°	8901	8825	8670
75°	9024	8819	8619
80°	9065	8915	8616
85°	8726	8726	8130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	4.2
10°-20°	598.2	11.9
20°-30°	896.2	17.8
30°-40°	1042.8	20.7
40°-50°	927.4	18.4
50°-60°	622.7	12.4
60°-70°	402.5	8.0
70°-80°	250.9	5.0
80°-90°	86.0	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°	1703.8	33.8
0°-40°	2746.6	54.5
0°-60°	4296.7	85.3
0°-90°	5036.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2213	2208	2191	2208	2205	210
15°	2132	2126	2110	2123	2121	601
25°	1962	1954	1935	1946	1941	902
35°	1693	1684	1668	1668	1665	1052
45°	1232	1227	1208	1191	1194	942
55°	695	695	687	676	670	630
65°	403	406	401	398	395	404
75°	243	240	237	237	232	255
85°	79	82	79	76	74	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2216.0	2210.5	2194.2	2213.2	2210.5
5°	2213.2	2207.8	2191.4	2207.8	2205.1
7.5°	2199.6	2196.9	2177.8	2196.9	2191.4
10°	2180.5	2180.5	2161.5	2177.8	2172.4
12.5°	2158.7	2156.0	2139.7	2156.0	2153.3
15°	2131.5	2126.0	2109.7	2123.3	2120.6
17.5°	2096.0	2093.3	2074.2	2087.9	2082.4
20°	2055.2	2049.7	2033.4	2044.3	2038.8
22.5°	2011.5	2006.1	1989.7	1997.9	1995.2
25°	1962.5	1954.3	1935.2	1946.1	1940.7
27.5°	1902.5	1899.8	1880.7	1886.2	1880.7
30°	1837.1	1834.4	1820.8	1820.8	1815.3
32.5°	1766.2	1769.0	1747.2	1749.9	1739.0
35°	1692.6	1684.5	1668.1	1668.1	1665.4
37.5°	1600.0	1594.5	1580.9	1578.2	1575.4
40°	1496.4	1490.9	1471.9	1466.4	1466.4
42.5°	1373.7	1368.3	1349.2	1341.0	1330.1
45°	1232.0	1226.6	1207.5	1191.1	1193.8
47.5°	1073.9	1079.4	1060.3	1046.7	1043.9
50°	934.9	932.2	915.8	907.6	896.7
52.5°	801.3	804.1	790.4	785.0	771.4
55°	695.0	695.0	686.9	676.0	670.5
57.5°	599.6	605.1	596.9	591.5	586.0
60°	520.6	523.3	523.3	512.4	512.4
62.5°	455.2	457.9	455.2	449.7	449.7
65°	403.4	406.1	400.7	397.9	395.2
67.5°	357.1	359.8	357.1	354.3	348.9
70°	316.2	316.2	313.5	313.5	308.0
72.5°	280.7	278.0	275.3	275.3	272.6
75°	242.6	239.9	237.1	237.1	231.7
77.5°	204.4	201.7	201.7	196.2	193.5
80°	163.5	163.5	160.8	158.1	155.4
82.5°	125.4	122.7	119.9	117.2	114.5
85°	79.0	81.8	79.0	76.3	73.6
87.5°	35.4	38.2	38.2	38.2	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)