

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: P688773

Luminaire Tested: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688773
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-93050-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5030.3 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

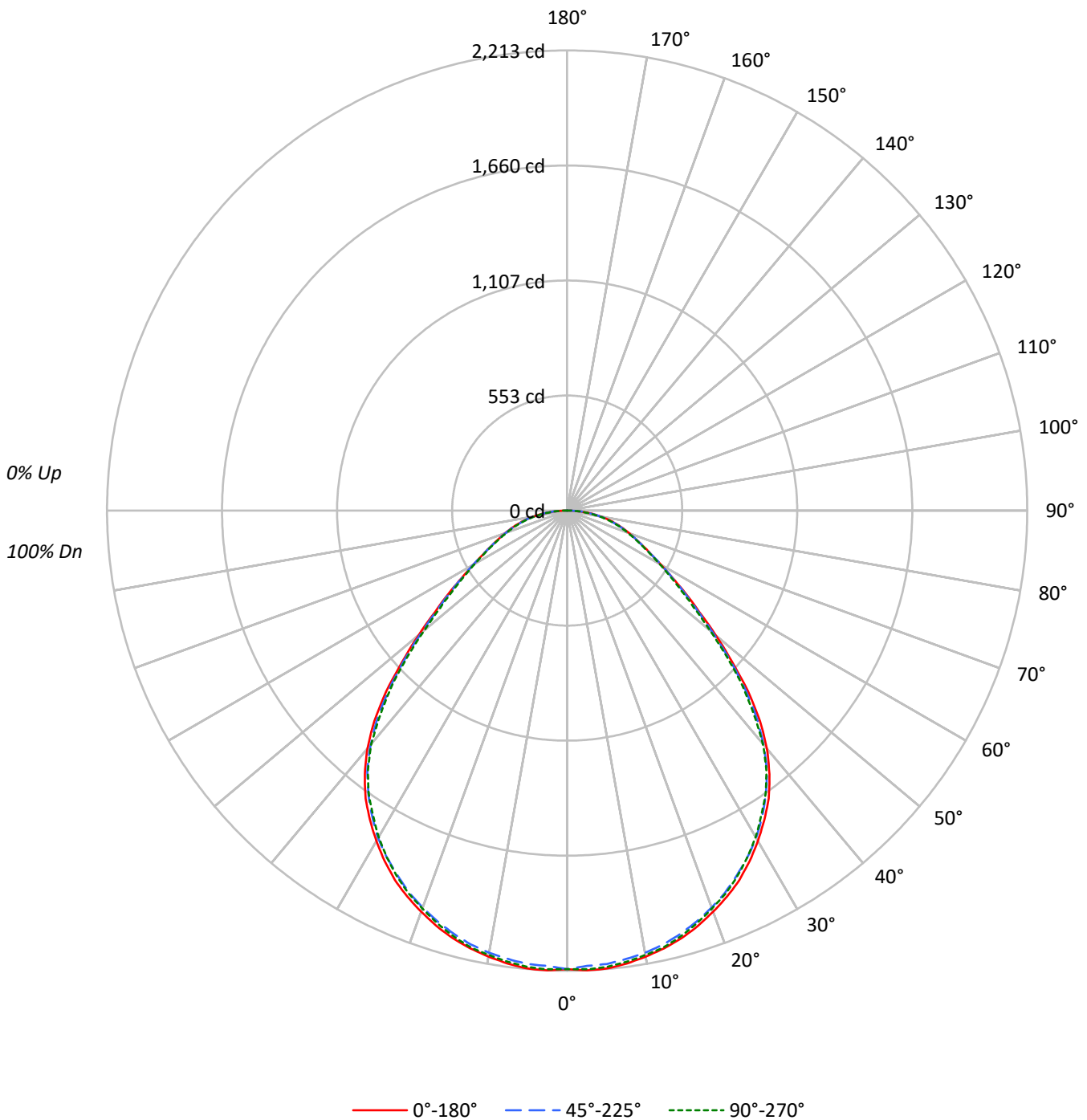
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688773

CATALOG NUMBER: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P688773

CATALOG NUMBER: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_5000K

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°	21230	21230	21230
5°	21364	21154	21285
10°	21292	21106	21213
15°	21220	21002	21111
20°	21031	20808	20863
25°	20822	20533	20591
30°	20399	20217	20157
35°	19870	19583	19551
40°	18785	18477	18408
45°	16755	16421	16236
50°	13986	13701	13415
55°	11652	11516	11241
60°	10012	10064	9855
65°	9178	9117	8994
70°	8889	8813	8658
75°	9013	8812	8607
80°	9059	8904	8605
85°	8726	8726	8119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16755 cd/sqm

TEST NUMBER: P688773

CATALOG NUMBER: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	4.2
10°-20°	597.5	11.9
20°-30°	895.1	17.8
30°-40°	1041.6	20.7
40°-50°	926.4	18.4
50°-60°	622.0	12.4
60°-70°	402.1	8.0
70°-80°	250.6	5.0
80°-90°	85.9	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°	1701.8	33.8
0°-40°	2743.4	54.5
0°-60°	4291.7	85.3
0°-90°	5030.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5030.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2205	2205	2205	2205	2205	
5°	2211	2205	2189	2205	2202	210
15°	2129	2124	2107	2121	2118	600
25°	1960	1952	1933	1944	1938	901
35°	1691	1682	1666	1666	1664	1051
45°	1231	1225	1206	1190	1192	941
55°	694	694	686	675	670	629
65°	403	406	400	398	395	404
75°	242	240	237	237	231	255
85°	79	82	79	76	74	87
90°	0	0	0	0	0	

TEST NUMBER: P688773

CATALOG NUMBER: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2205.2	2205.2	2205.2	2205.2	2205.2
2.5°	2213.4	2208.0	2191.6	2210.7	2208.0
5°	2210.7	2205.2	2188.9	2205.2	2202.5
7.5°	2197.1	2194.4	2175.3	2194.4	2188.9
10°	2178.0	2178.0	2159.0	2175.3	2169.9
12.5°	2156.2	2153.5	2137.2	2153.5	2150.8
15°	2129.0	2123.6	2107.2	2120.8	2118.1
17.5°	2093.6	2090.9	2071.8	2085.5	2080.0
20°	2052.8	2047.3	2031.0	2041.9	2036.4
22.5°	2009.2	2003.8	1987.4	1995.6	1992.9
25°	1960.2	1952.0	1933.0	1943.9	1938.4
27.5°	1900.3	1897.6	1878.5	1884.0	1878.5
30°	1835.0	1832.3	1818.6	1818.6	1813.2
32.5°	1764.2	1766.9	1745.1	1747.9	1737.0
35°	1690.7	1682.5	1666.2	1666.2	1663.5
37.5°	1598.1	1592.7	1579.1	1576.3	1573.6
40°	1494.7	1489.2	1470.2	1464.7	1464.7
42.5°	1372.2	1366.7	1347.6	1339.5	1328.6
45°	1230.6	1225.1	1206.1	1189.7	1192.5
47.5°	1072.7	1078.1	1059.1	1045.4	1042.7
50°	933.8	931.1	914.8	906.6	895.7
52.5°	800.4	803.1	789.5	784.1	770.5
55°	694.2	694.2	686.1	675.2	669.7
57.5°	599.0	604.4	596.2	590.8	585.3
60°	520.0	522.7	522.7	511.8	511.8
62.5°	454.7	457.4	454.7	449.2	449.2
65°	402.9	405.7	400.2	397.5	394.8
67.5°	356.7	359.4	356.7	353.9	348.5
70°	315.8	315.8	313.1	313.1	307.6
72.5°	280.4	277.7	275.0	275.0	272.3
75°	242.3	239.6	236.9	236.9	231.4
77.5°	204.2	201.5	201.5	196.0	193.3
80°	163.4	163.4	160.6	157.9	155.2
82.5°	125.2	122.5	119.8	117.1	114.3
85°	79.0	81.7	79.0	76.2	73.5
87.5°	35.4	38.1	38.1	38.1	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)