

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: P688765

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688765
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4829.4 lumens
Efficiency: N/A
Efficacy: 78.9 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

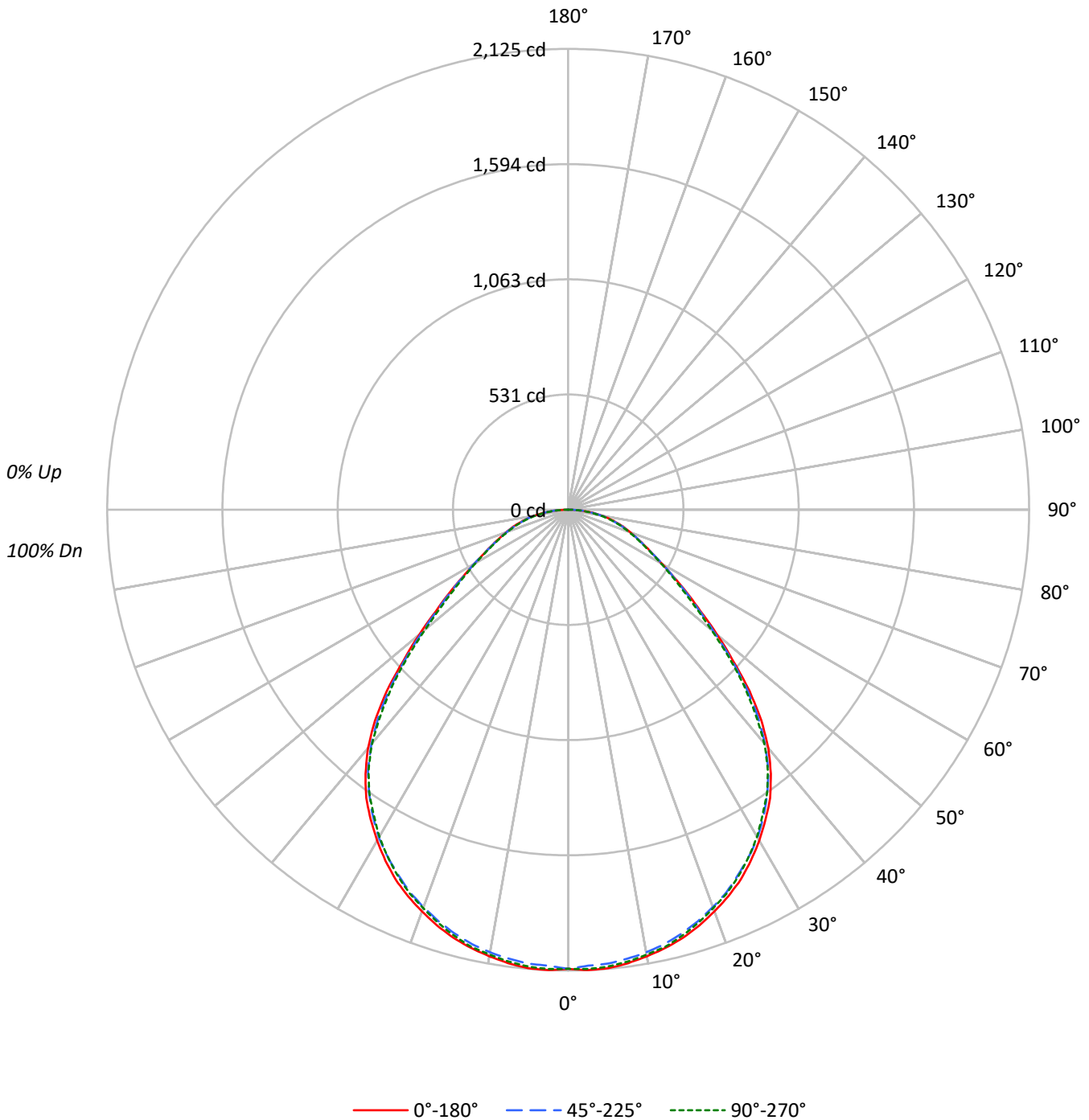
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	20383	20383	20383
5°	20511	20309	20435
10°	20441	20262	20365
15°	20372	20164	20268
20°	20191	19977	20030
25°	19991	19713	19769
30°	19584	19410	19352
35°	19077	18800	18769
40°	18035	17738	17673
45°	16085	15765	15587
50°	13427	13153	12879
55°	11187	11056	10793
60°	9612	9662	9462
65°	8811	8752	8634
70°	8535	8461	8315
75°	8652	8459	8265
80°	8693	8549	8261
85°	8373	8373	7799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	4.2
10°-20°	573.7	11.9
20°-30°	859.4	17.8
30°-40°	999.9	20.7
40°-50°	889.4	18.4
50°-60°	597.2	12.4
60°-70°	386.0	8.0
70°-80°	240.6	5.0
80°-90°	82.5	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°	1633.8	33.8
0°-40°	2633.8	54.5
0°-60°	4120.3	85.3
0°-90°	4829.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4829.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2122	2117	2102	2117	2114	201
15°	2044	2039	2023	2036	2034	576
25°	1882	1874	1856	1866	1861	865
35°	1623	1615	1600	1600	1597	1009
45°	1181	1176	1158	1142	1145	903
55°	666	666	659	648	643	604
65°	387	390	384	382	379	388
75°	233	230	227	227	222	245
85°	76	78	76	73	71	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2117.2	2117.2	2117.2	2117.2	2117.2
2.5°	2125.0	2119.8	2104.1	2122.4	2119.8
5°	2122.4	2117.2	2101.5	2117.2	2114.5
7.5°	2109.3	2106.7	2088.4	2106.7	2101.5
10°	2091.0	2091.0	2072.7	2088.4	2083.2
12.5°	2070.1	2067.5	2051.8	2067.5	2064.9
15°	2044.0	2038.7	2023.1	2036.1	2033.5
17.5°	2010.0	2007.4	1989.1	2002.2	1996.9
20°	1970.8	1965.6	1949.9	1960.3	1955.1
22.5°	1929.0	1923.7	1908.1	1915.9	1913.3
25°	1881.9	1874.1	1855.8	1866.2	1861.0
27.5°	1824.4	1821.8	1803.5	1808.7	1803.5
30°	1761.7	1759.1	1746.0	1746.0	1740.8
32.5°	1693.7	1696.3	1675.4	1678.0	1667.6
35°	1623.2	1615.3	1599.6	1599.6	1597.0
37.5°	1534.3	1529.1	1516.0	1513.4	1510.8
40°	1435.0	1429.7	1411.4	1406.2	1406.2
42.5°	1317.3	1312.1	1293.8	1286.0	1275.5
45°	1181.4	1176.2	1157.9	1142.2	1144.8
47.5°	1029.8	1035.1	1016.8	1003.7	1001.1
50°	896.5	893.9	878.2	870.4	859.9
52.5°	768.5	771.1	758.0	752.8	739.7
55°	666.5	666.5	658.7	648.2	643.0
57.5°	575.0	580.3	572.4	567.2	562.0
60°	499.2	501.8	501.8	491.4	491.4
62.5°	436.5	439.1	436.5	431.3	431.3
65°	386.8	389.5	384.2	381.6	379.0
67.5°	342.4	345.0	342.4	339.8	334.6
70°	303.2	303.2	300.6	300.6	295.4
72.5°	269.2	266.6	264.0	264.0	261.4
75°	232.6	230.0	227.4	227.4	222.2
77.5°	196.0	193.4	193.4	188.2	185.6
80°	156.8	156.8	154.2	151.6	149.0
82.5°	120.2	117.6	115.0	112.4	109.8
85°	75.8	78.4	75.8	73.2	70.6
87.5°	34.0	36.6	36.6	36.6	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)