

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: P688763

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688763
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_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4590.1 lumens
Efficiency: N/A
Efficacy: 75.0 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

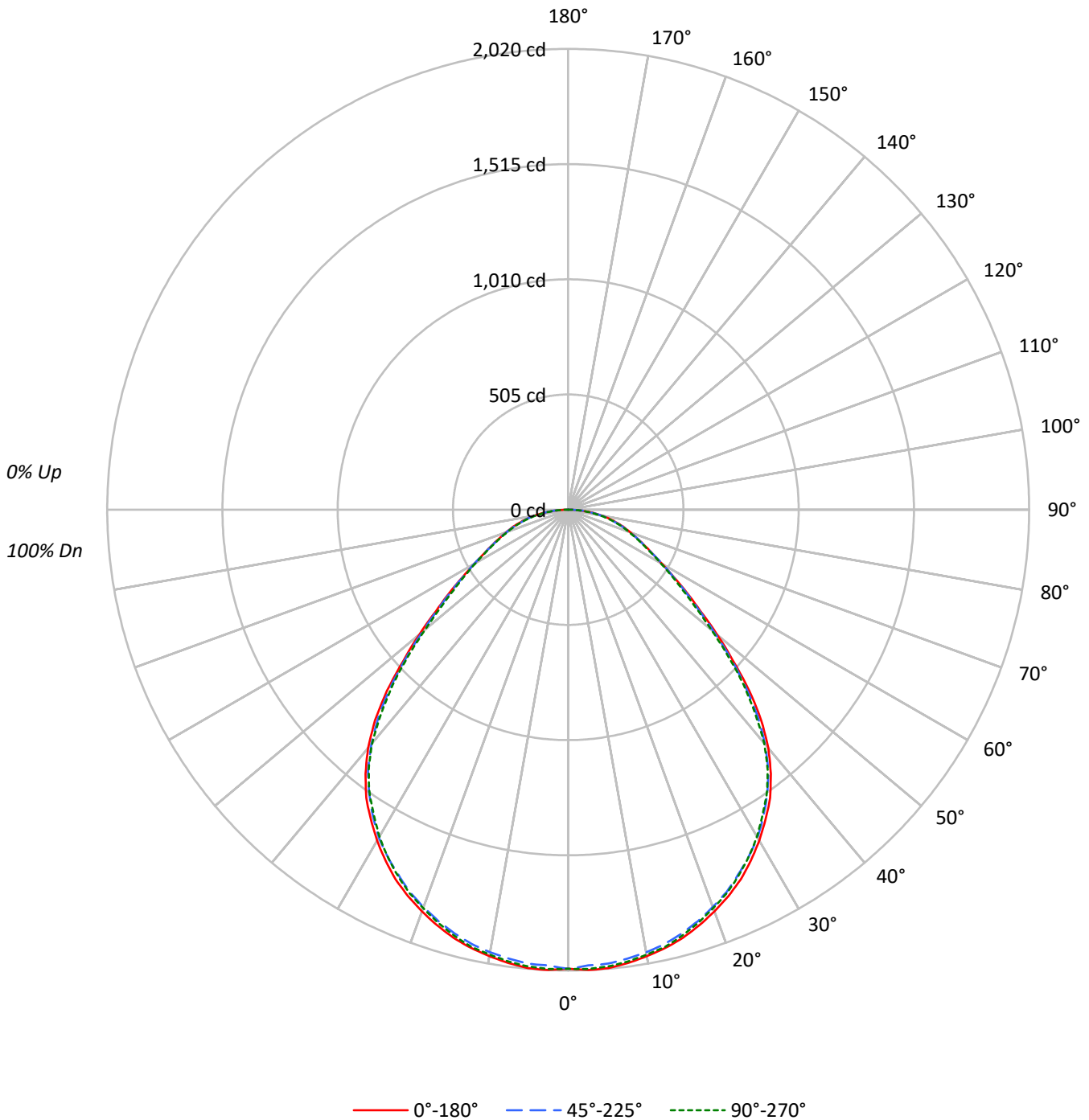
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	19373	19373	19373
5°	19494	19303	19423
10°	19429	19258	19356
15°	19363	19164	19264
20°	19191	18987	19038
25°	19001	18736	18789
30°	18614	18448	18393
35°	18131	17869	17840
40°	17141	16859	16797
45°	15288	14983	14815
50°	12762	12502	12241
55°	10633	10507	10257
60°	9136	9184	8992
65°	8376	8319	8205
70°	8112	8042	7901
75°	8224	8038	7856
80°	8266	8128	7851
85°	7953	7953	7412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	4.2
10°-20°	545.2	11.9
20°-30°	816.8	17.8
30°-40°	950.4	20.7
40°-50°	845.3	18.4
50°-60°	567.6	12.4
60°-70°	366.9	8.0
70°-80°	228.7	5.0
80°-90°	78.4	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°	1552.9	33.8
0°-40°	2503.3	54.5
0°-60°	3916.2	85.3
0°-90°	4590.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4590.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	2017	2012	1997	2012	2010	192
15°	1943	1938	1923	1935	1933	548
25°	1789	1781	1764	1774	1769	822
35°	1543	1535	1520	1520	1518	959
45°	1123	1118	1100	1086	1088	858
55°	634	634	626	616	611	574
65°	368	370	365	363	360	368
75°	221	219	216	216	211	233
85°	72	74	72	70	67	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.3	2012.3	2012.3	2012.3	2012.3
2.5°	2019.7	2014.8	1999.9	2017.2	2014.8
5°	2017.2	2012.3	1997.4	2012.3	2009.8
7.5°	2004.8	2002.3	1984.9	2002.3	1997.4
10°	1987.4	1987.4	1970.0	1984.9	1980.0
12.5°	1967.6	1965.1	1950.2	1965.1	1962.6
15°	1942.7	1937.7	1922.8	1935.3	1932.8
17.5°	1910.4	1907.9	1890.5	1903.0	1898.0
20°	1873.2	1868.2	1853.3	1863.2	1858.2
22.5°	1833.4	1828.4	1813.5	1821.0	1818.5
25°	1788.7	1781.2	1763.8	1773.8	1768.8
27.5°	1734.0	1731.5	1714.2	1719.1	1714.2
30°	1674.4	1671.9	1659.5	1659.5	1654.5
32.5°	1609.8	1612.3	1592.4	1594.9	1585.0
35°	1542.7	1535.3	1520.4	1520.4	1517.9
37.5°	1458.3	1453.3	1440.9	1438.4	1435.9
40°	1363.9	1358.9	1341.5	1336.5	1336.5
42.5°	1252.1	1247.1	1229.7	1222.3	1212.3
45°	1122.9	1117.9	1100.5	1085.6	1088.1
47.5°	978.8	983.8	966.4	954.0	951.5
50°	852.1	849.6	834.7	827.3	817.3
52.5°	730.4	732.9	720.4	715.5	703.1
55°	633.5	633.5	626.0	616.1	611.1
57.5°	546.5	551.5	544.1	539.1	534.1
60°	474.5	477.0	477.0	467.0	467.0
62.5°	414.9	417.4	414.9	409.9	409.9
65°	367.7	370.2	365.2	362.7	360.2
67.5°	325.4	327.9	325.4	323.0	318.0
70°	288.2	288.2	285.7	285.7	280.7
72.5°	255.9	253.4	250.9	250.9	248.4
75°	221.1	218.6	216.1	216.1	211.2
77.5°	186.3	183.8	183.8	178.9	176.4
80°	149.1	149.1	146.6	144.1	141.6
82.5°	114.3	111.8	109.3	106.8	104.3
85°	72.0	74.5	72.0	69.6	67.1
87.5°	32.3	34.8	34.8	34.8	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)