

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: P688771

Luminaire Tested: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688771
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_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: 4932.5 lumens
Efficiency: N/A
Efficacy: 80.2 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

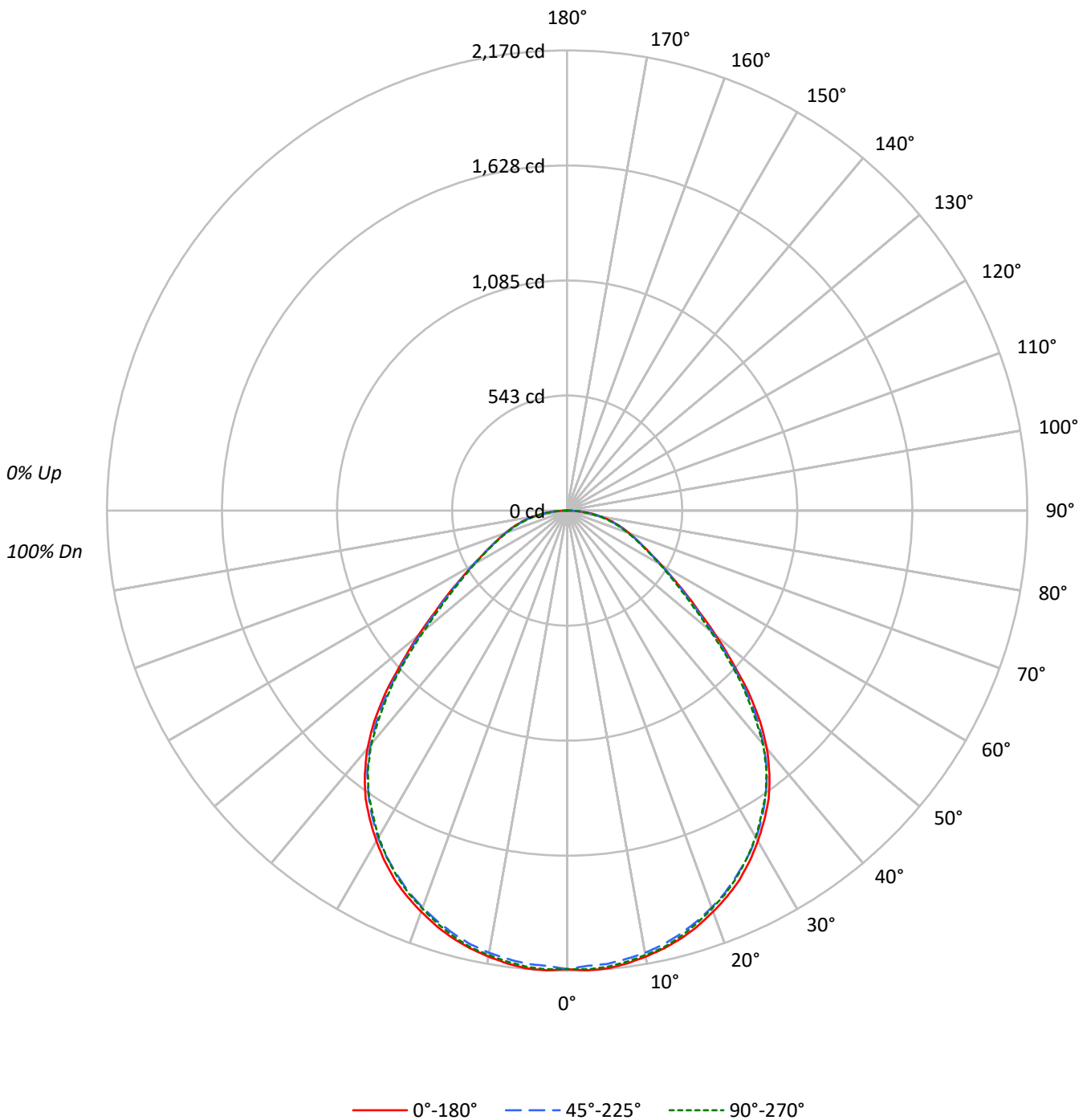
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	20818	20818	20818
5°	20949	20742	20872
10°	20878	20695	20800
15°	20807	20595	20700
20°	20623	20403	20458
25°	20418	20134	20190
30°	20002	19824	19764
35°	19484	19202	19170
40°	18419	18117	18050
45°	16428	16101	15920
50°	13715	13435	13155
55°	11425	11291	11023
60°	9818	9870	9664
65°	9000	8939	8818
70°	8718	8642	8492
75°	8838	8641	8440
80°	8882	8732	8438
85°	8550	8550	7964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	4.2
10°-20°	585.9	11.9
20°-30°	877.7	17.8
30°-40°	1021.3	20.7
40°-50°	908.3	18.4
50°-60°	609.9	12.4
60°-70°	394.3	8.0
70°-80°	245.7	5.0
80°-90°	84.2	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°	1668.7	33.8
0°-40°	2690.0	54.5
0°-60°	4208.3	85.3
0°-90°	4932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4932.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2168	2162	2146	2162	2160	206
15°	2088	2082	2066	2080	2077	588
25°	1922	1914	1895	1906	1901	884
35°	1658	1650	1634	1634	1631	1030
45°	1207	1201	1183	1167	1169	922
55°	681	681	673	662	657	617
65°	395	398	392	390	387	396
75°	238	235	232	232	227	250
85°	77	80	77	75	72	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.4	2162.4	2162.4	2162.4	2162.4
2.5°	2170.4	2165.0	2149.0	2167.7	2165.0
5°	2167.7	2162.4	2146.3	2162.4	2159.7
7.5°	2154.4	2151.7	2133.0	2151.7	2146.3
10°	2135.7	2135.7	2117.0	2133.0	2127.7
12.5°	2114.3	2111.6	2095.6	2111.6	2109.0
15°	2087.6	2082.3	2066.3	2079.6	2076.9
17.5°	2052.9	2050.2	2031.6	2044.9	2039.6
20°	2012.9	2007.5	1991.5	2002.2	1996.8
22.5°	1970.1	1964.8	1948.8	1956.8	1954.1
25°	1922.1	1914.1	1895.4	1906.1	1900.7
27.5°	1863.4	1860.7	1842.0	1847.3	1842.0
30°	1799.3	1796.6	1783.3	1783.3	1777.9
32.5°	1729.9	1732.6	1711.2	1713.9	1703.2
35°	1657.8	1649.8	1633.8	1633.8	1631.1
37.5°	1567.0	1561.7	1548.4	1545.7	1543.0
40°	1465.6	1460.3	1441.6	1436.2	1436.2
42.5°	1345.5	1340.1	1321.4	1313.4	1302.8
45°	1206.6	1201.3	1182.6	1166.6	1169.3
47.5°	1051.8	1057.2	1038.5	1025.1	1022.4
50°	915.7	913.0	897.0	889.0	878.3
52.5°	784.9	787.5	774.2	768.8	755.5
55°	680.7	680.7	672.7	662.1	656.7
57.5°	587.3	592.6	584.6	579.3	574.0
60°	509.9	512.6	512.6	501.9	501.9
62.5°	445.8	448.5	445.8	440.5	440.5
65°	395.1	397.8	392.4	389.8	387.1
67.5°	349.7	352.4	349.7	347.0	341.7
70°	309.7	309.7	307.0	307.0	301.7
72.5°	275.0	272.3	269.6	269.6	267.0
75°	237.6	234.9	232.3	232.3	226.9
77.5°	200.2	197.5	197.5	192.2	189.5
80°	160.2	160.2	157.5	154.8	152.2
82.5°	122.8	120.1	117.5	114.8	112.1
85°	77.4	80.1	77.4	74.7	72.1
87.5°	34.7	37.4	37.4	37.4	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)