

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: P688768

Luminaire Tested: SQ4R-PH1-125D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688768
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_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.7 lumens
Efficiency: N/A
Efficacy: 84.0 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

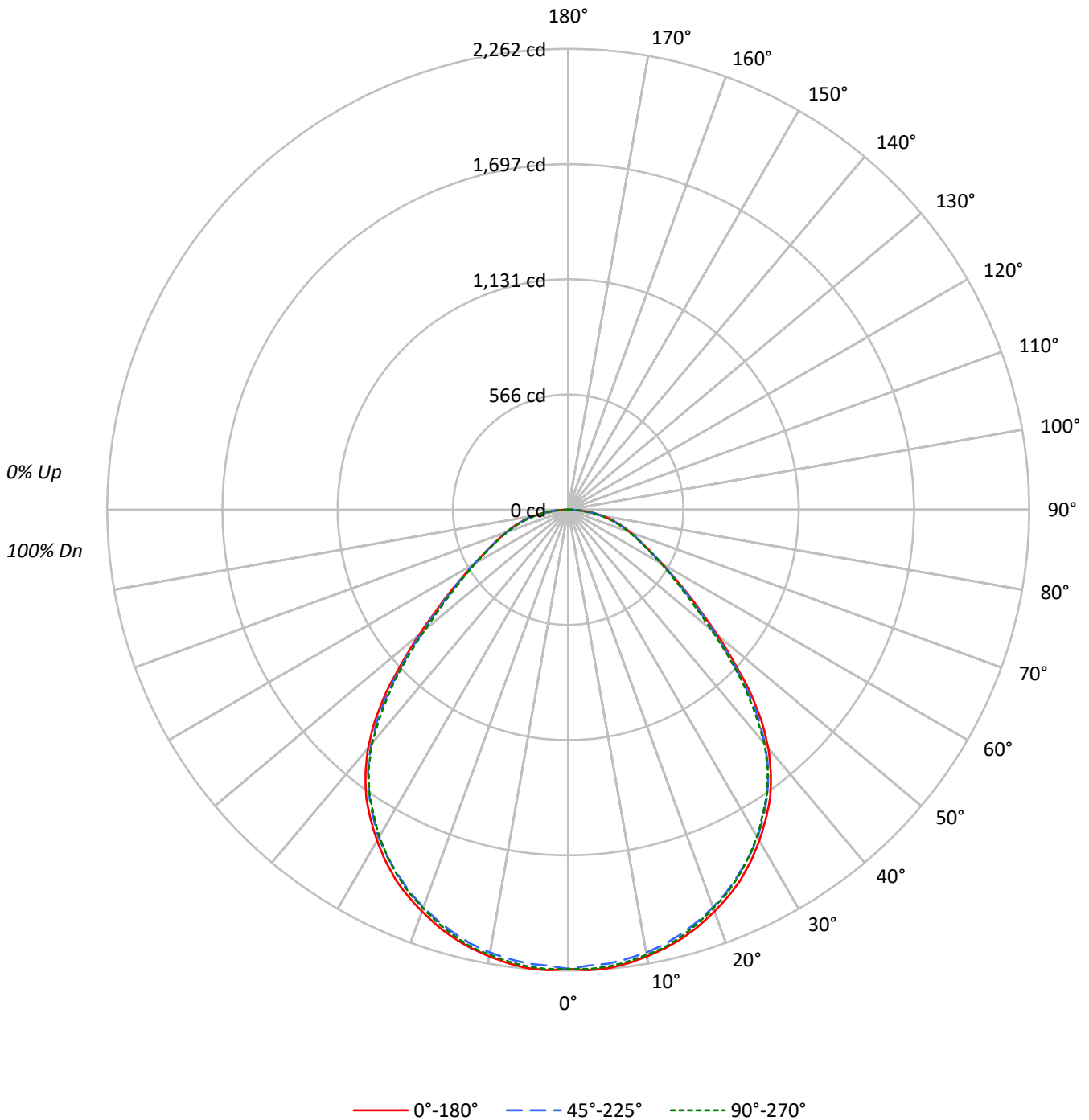
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	21701	21701	21701
5°	21837	21622	21757
10°	21763	21573	21682
15°	21689	21468	21578
20°	21496	21269	21325
25°	21283	20988	21047
30°	20850	20665	20603
35°	20310	20016	19983
40°	19201	18885	18815
45°	17125	16785	16595
50°	14296	14004	13712
55°	11910	11771	11491
60°	10234	10288	10074
65°	9383	9319	9192
70°	9086	9008	8853
75°	9214	9005	8797
80°	9259	9104	8793
85°	8914	8914	8296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	4.2
10°-20°	610.8	11.9
20°-30°	915.0	17.8
30°-40°	1064.6	20.7
40°-50°	946.9	18.4
50°-60°	635.8	12.4
60°-70°	411.0	8.0
70°-80°	256.2	5.0
80°-90°	87.8	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°	1739.5	33.8
0°-40°	2804.1	54.5
0°-60°	4386.7	85.3
0°-90°	5141.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5141.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2260	2254	2237	2254	2251	215
15°	2176	2171	2154	2168	2165	613
25°	2004	1995	1976	1987	1981	921
35°	1728	1720	1703	1703	1700	1074
45°	1258	1252	1233	1216	1219	961
55°	710	710	701	690	685	643
65°	412	415	409	406	404	413
75°	248	245	242	242	236	261
85°	81	84	81	78	75	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2262.4	2256.8	2240.1	2259.6	2256.8
5°	2259.6	2254.1	2237.4	2254.1	2251.3
7.5°	2245.7	2242.9	2223.4	2242.9	2237.4
10°	2226.2	2226.2	2206.8	2223.4	2217.9
12.5°	2204.0	2201.2	2184.5	2201.2	2198.4
15°	2176.1	2170.6	2153.9	2167.8	2165.0
17.5°	2140.0	2137.2	2117.7	2131.6	2126.1
20°	2098.2	2092.7	2076.0	2087.1	2081.5
22.5°	2053.7	2048.1	2031.4	2039.8	2037.0
25°	2003.6	1995.3	1975.8	1986.9	1981.3
27.5°	1942.4	1939.6	1920.1	1925.7	1920.1
30°	1875.6	1872.8	1858.9	1858.9	1853.3
32.5°	1803.2	1806.0	1783.8	1786.6	1775.4
35°	1728.1	1719.8	1703.1	1703.1	1700.3
37.5°	1633.5	1627.9	1614.0	1611.2	1608.5
40°	1527.8	1522.2	1502.7	1497.1	1497.1
42.5°	1402.5	1397.0	1377.5	1369.1	1358.0
45°	1257.8	1252.3	1232.8	1216.1	1218.9
47.5°	1096.4	1102.0	1082.5	1068.6	1065.8
50°	954.5	951.7	935.0	926.7	915.5
52.5°	818.1	820.9	807.0	801.4	787.5
55°	709.6	709.6	701.3	690.1	684.6
57.5°	612.2	617.8	609.4	603.9	598.3
60°	531.5	534.3	534.3	523.2	523.2
62.5°	464.7	467.5	464.7	459.2	459.2
65°	411.9	414.6	409.1	406.3	403.5
67.5°	364.5	367.3	364.5	361.8	356.2
70°	322.8	322.8	320.0	320.0	314.5
72.5°	286.6	283.8	281.1	281.1	278.3
75°	247.7	244.9	242.1	242.1	236.5
77.5°	208.7	205.9	205.9	200.4	197.6
80°	167.0	167.0	164.2	161.4	158.6
82.5°	128.0	125.2	122.4	119.7	116.9
85°	80.7	83.5	80.7	77.9	75.1
87.5°	36.2	39.0	39.0	39.0	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)