

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: P688917

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4167.5 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

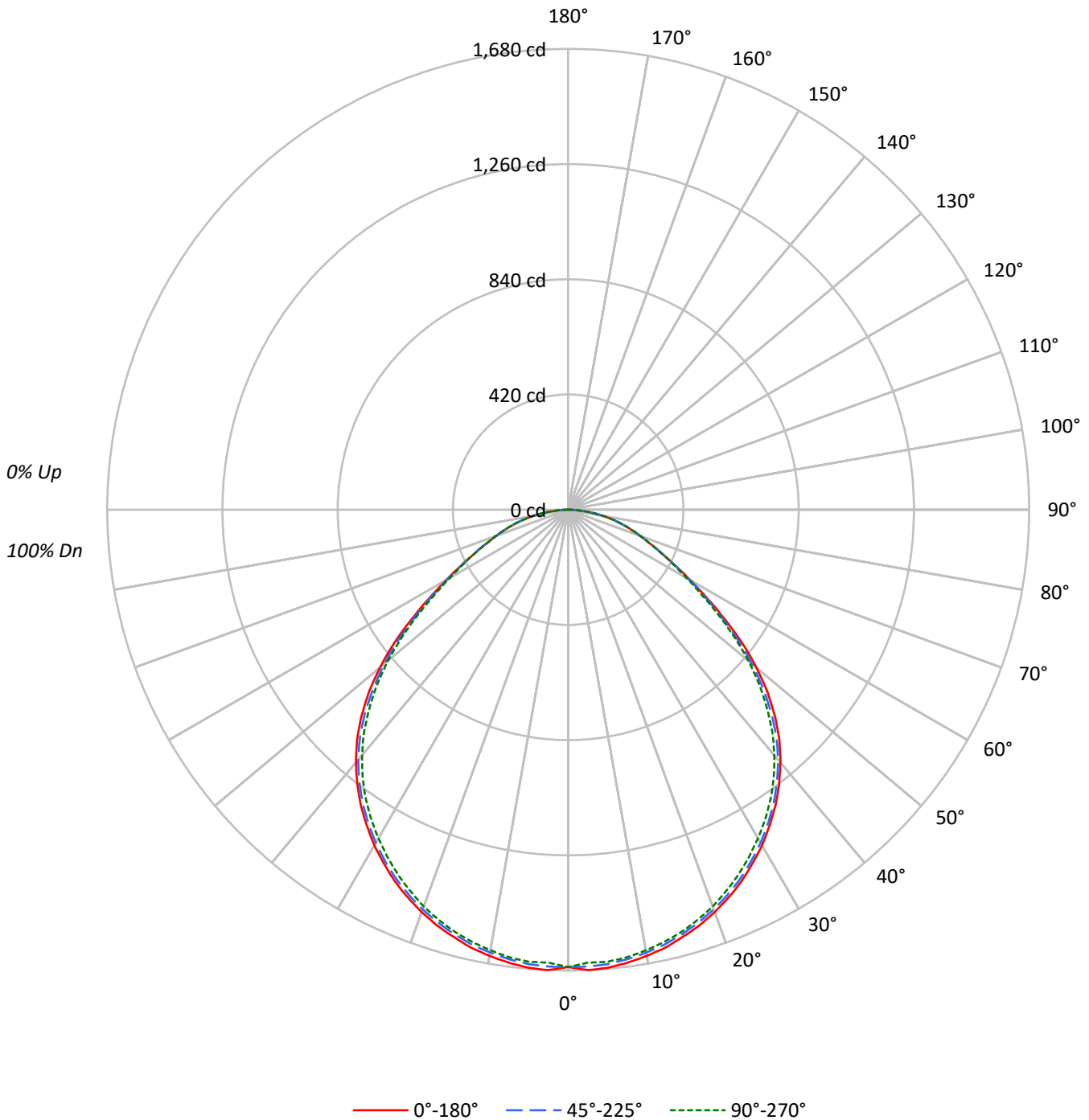
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16049	16049	16049
5°	16193	16069	15985
10°	16142	16029	15945
15°	16071	15971	15885
20°	15991	15887	15769
25°	15878	15771	15588
30°	15707	15595	15371
35°	15475	15340	15120
40°	15121	14959	14689
45°	14506	14251	13958
50°	13420	13096	12839
55°	11712	11447	11207
60°	9870	9787	9593
65°	8538	8570	8504
70°	7842	7882	7882
75°	7532	7532	7585
80°	7085	7163	7085
85°	5711	6340	6340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14506 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.8
10°-20°	451.3	10.8
20°-30°	680.6	16.3
30°-40°	811.1	19.5
40°-50°	800.2	19.2
50°-60°	610.4	14.6
60°-70°	376.7	9.0
70°-80°	214.7	5.2
80°-90°	64.7	1.6
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°	1289.6	30.9
0°-40°	2100.8	50.4
0°-60°	3511.3	84.3
0°-90°	4167.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1676	1657	1663	1657	1654	159
15°	1612	1595	1602	1597	1594	455
25°	1495	1476	1485	1469	1467	688
35°	1317	1301	1305	1288	1286	822
45°	1065	1051	1047	1028	1025	817
55°	698	686	682	670	668	625
65°	375	372	376	373	373	378
75°	202	202	202	204	204	214
85°	52	55	57	57	57	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.0	1667.0	1667.0	1667.0	1667.0
2.5°	1679.9	1661.3	1667.0	1662.7	1652.6
5°	1675.6	1657.0	1662.7	1657.0	1654.1
7.5°	1665.6	1646.9	1652.6	1646.9	1645.5
10°	1651.2	1634.0	1639.7	1634.0	1631.1
12.5°	1635.4	1616.7	1623.9	1616.7	1613.9
15°	1612.4	1595.2	1602.4	1596.6	1593.8
17.5°	1589.5	1570.8	1578.0	1572.2	1567.9
20°	1560.8	1543.5	1550.7	1540.7	1539.2
22.5°	1529.2	1511.9	1519.1	1504.8	1504.8
25°	1494.7	1476.0	1484.7	1468.9	1467.4
27.5°	1454.5	1437.3	1444.4	1428.7	1427.2
30°	1412.9	1395.6	1402.8	1385.6	1382.7
32.5°	1365.5	1349.7	1355.4	1338.2	1336.8
35°	1316.7	1300.9	1305.2	1287.9	1286.5
37.5°	1262.1	1247.7	1250.6	1231.9	1230.5
40°	1203.2	1188.9	1190.3	1170.2	1168.8
42.5°	1138.6	1124.3	1122.8	1102.7	1101.3
45°	1065.4	1051.0	1046.7	1028.1	1025.2
47.5°	985.0	970.6	962.0	946.2	944.8
50°	896.0	881.6	874.4	861.5	857.2
52.5°	799.8	785.4	779.7	768.2	763.9
55°	697.8	686.3	682.0	670.5	667.7
57.5°	600.2	591.6	590.1	578.6	577.2
60°	512.6	508.3	508.3	498.2	498.2
62.5°	437.9	435.1	437.9	432.2	430.8
65°	374.8	371.9	376.2	373.3	373.3
67.5°	321.6	321.6	324.5	323.1	323.1
70°	278.6	278.6	280.0	280.0	280.0
72.5°	239.8	238.3	242.7	242.7	241.2
75°	202.5	202.5	202.5	203.9	203.9
77.5°	165.1	165.1	166.6	166.6	165.1
80°	127.8	129.2	129.2	127.8	127.8
82.5°	90.5	91.9	91.9	91.9	90.5
85°	51.7	54.6	57.4	57.4	57.4
87.5°	18.7	24.4	28.7	28.7	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)