

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: P688923

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688923
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_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

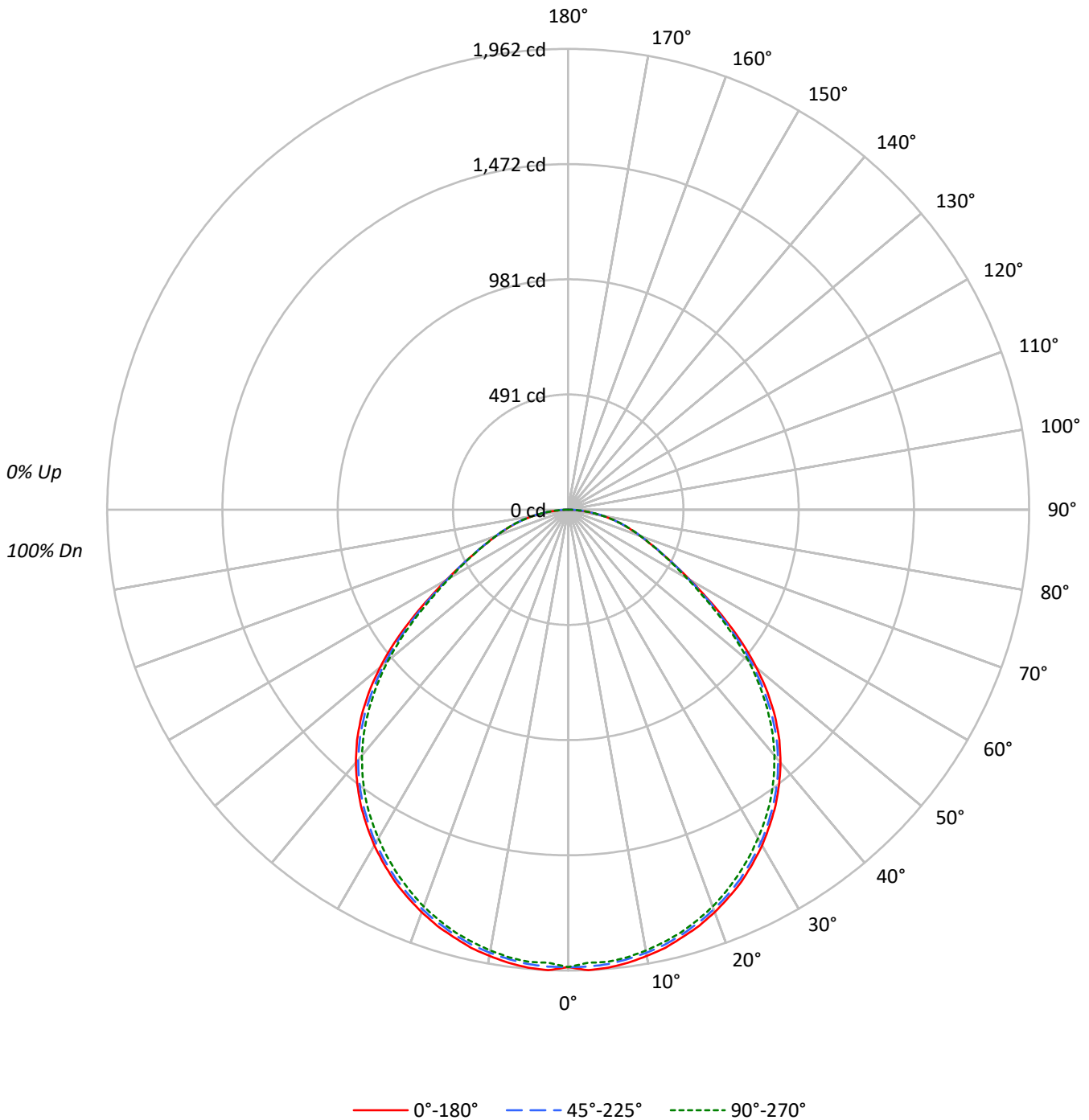
Lumens per Lamp: N/A
Luminaire Lumens: 4868.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 61.3
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									30									10									0
RW	70	50	30	10	70	50	30	10	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85						85													
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72						72													
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62						62													
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54						54													
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47						47													
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41						41													
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37						37													
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33						33													
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30						30													
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27						27													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18747	18747	18747
5°	18917	18771	18674
10°	18857	18726	18627
15°	18774	18657	18556
20°	18679	18559	18422
25°	18548	18423	18209
30°	18348	18217	17956
35°	18077	17920	17663
40°	17665	17475	17159
45°	16945	16649	16305
50°	15675	15300	14997
55°	13683	13372	13090
60°	11530	11433	11206
65°	9973	10012	9934
70°	9160	9207	9207
75°	8797	8797	8860
80°	8277	8372	8277
85°	6672	7412	7412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.8
10°-20°	527.2	10.8
20°-30°	795.1	16.3
30°-40°	947.6	19.5
40°-50°	934.7	19.2
50°-60°	713.0	14.6
60°-70°	440.1	9.0
70°-80°	250.8	5.2
80°-90°	75.6	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°	1506.5	30.9
0°-40°	2454.1	50.4
0°-60°	4101.8	84.3
0°-90°	4868.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4868.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1957	1936	1942	1936	1932	186
15°	1884	1864	1872	1865	1862	532
25°	1746	1724	1734	1716	1714	804
35°	1538	1520	1525	1504	1503	961
45°	1245	1228	1223	1201	1198	955
55°	815	802	797	783	780	730
65°	438	434	440	436	436	442
75°	236	236	236	238	238	250
85°	60	64	67	67	67	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.3	1947.3	1947.3	1947.3	1947.3
2.5°	1962.4	1940.6	1947.3	1942.3	1930.6
5°	1957.4	1935.6	1942.3	1935.6	1932.3
7.5°	1945.7	1923.9	1930.6	1923.9	1922.2
10°	1928.9	1908.8	1915.5	1908.8	1905.4
12.5°	1910.4	1888.6	1897.0	1888.6	1885.3
15°	1883.6	1863.5	1871.9	1865.2	1861.8
17.5°	1856.8	1835.0	1843.4	1836.6	1831.6
20°	1823.2	1803.1	1811.5	1799.7	1798.1
22.5°	1786.3	1766.2	1774.6	1757.8	1757.8
25°	1746.1	1724.3	1734.3	1715.9	1714.2
27.5°	1699.1	1679.0	1687.4	1668.9	1667.2
30°	1650.5	1630.3	1638.7	1618.6	1615.2
32.5°	1595.1	1576.7	1583.4	1563.2	1561.6
35°	1538.1	1519.6	1524.7	1504.5	1502.9
37.5°	1474.3	1457.6	1460.9	1439.1	1437.4
40°	1405.6	1388.8	1390.5	1367.0	1365.3
42.5°	1330.1	1313.3	1311.6	1288.2	1286.5
45°	1244.6	1227.8	1222.8	1200.9	1197.6
47.5°	1150.6	1133.9	1123.8	1105.3	1103.7
50°	1046.6	1029.9	1021.5	1006.4	1001.3
52.5°	934.3	917.5	910.8	897.4	892.3
55°	815.2	801.8	796.7	783.3	779.9
57.5°	701.1	691.0	689.4	676.0	674.3
60°	598.8	593.8	593.8	582.0	582.0
62.5°	511.6	508.2	511.6	504.9	503.2
65°	437.8	434.4	439.5	436.1	436.1
67.5°	375.7	375.7	379.1	377.4	377.4
70°	325.4	325.4	327.1	327.1	327.1
72.5°	280.1	278.4	283.5	283.5	281.8
75°	236.5	236.5	236.5	238.2	238.2
77.5°	192.9	192.9	194.6	194.6	192.9
80°	149.3	151.0	151.0	149.3	149.3
82.5°	105.7	107.3	107.3	107.3	105.7
85°	60.4	63.7	67.1	67.1	67.1
87.5°	21.8	28.5	33.5	33.5	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)