

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: P688631

Luminaire Tested: SQ4R-PW1-125D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-125D-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES 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: 3998.4 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

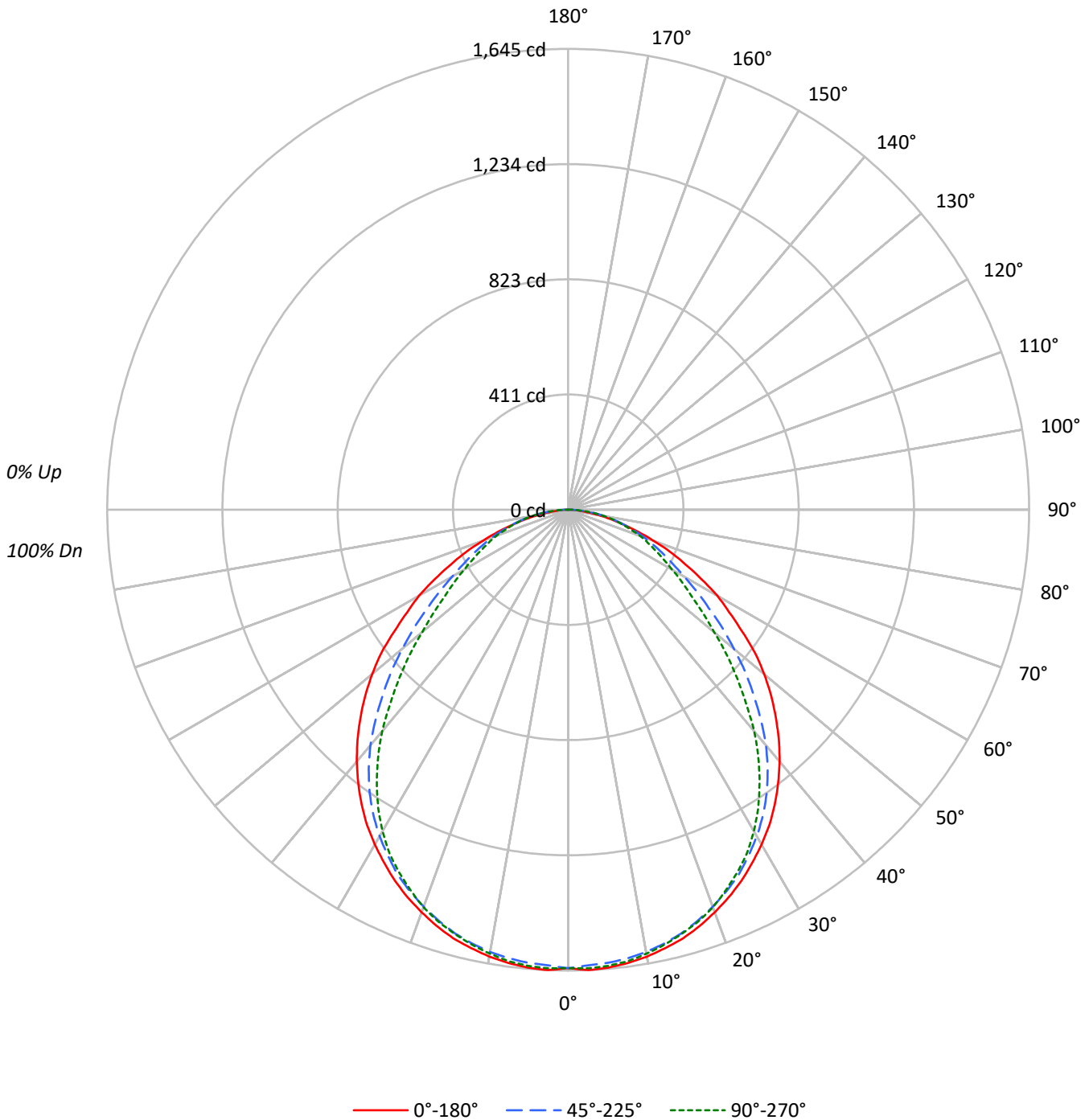
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15754	15754	15754
5°	15856	15693	15794
10°	15833	15669	15730
15°	15787	15597	15618
20°	15667	15451	15472
25°	15529	15283	15171
30°	15339	14965	14731
35°	15105	14511	13992
40°	14751	13799	12980
45°	14262	12744	11627
50°	13673	11561	10176
55°	12709	10274	9003
60°	11826	9194	8262
65°	10493	8529	7811
70°	9117	8112	7696
75°	7510	7666	7354
80°	5949	7230	7230
85°	4418	6506	6738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.9
10°-20°	443.5	11.1
20°-30°	664.3	16.6
30°-40°	771.8	19.3
40°-50°	728.2	18.2
50°-60°	568.1	14.2
60°-70°	385.7	9.6
70°-80°	217.2	5.4
80°-90°	64.5	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°	1263.0	31.6
0°-40°	2034.8	50.9
0°-60°	3331.1	83.3
0°-90°	3998.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1641	1636	1624	1636	1634	156
15°	1584	1578	1565	1573	1567	447
25°	1462	1456	1439	1434	1428	673
35°	1285	1273	1235	1207	1190	803
45°	1048	1016	936	877	854	808
55°	757	713	612	553	536	680
65°	461	419	374	351	343	460
75°	202	210	206	198	198	220
85°	40	57	59	59	61	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1644.9	1640.7	1628.0	1640.7	1638.5
5°	1640.7	1636.4	1623.8	1636.4	1634.3
7.5°	1632.2	1630.1	1615.4	1628.0	1625.9
10°	1619.6	1617.5	1602.8	1613.3	1609.1
12.5°	1602.8	1600.7	1586.0	1594.4	1590.2
15°	1583.9	1577.6	1564.9	1573.3	1567.0
17.5°	1558.6	1552.3	1537.6	1543.9	1541.8
20°	1529.2	1522.9	1508.1	1514.4	1510.2
22.5°	1497.6	1491.3	1474.5	1476.6	1470.3
25°	1461.9	1455.6	1438.7	1434.5	1428.2
27.5°	1421.9	1417.7	1392.5	1388.2	1381.9
30°	1379.8	1373.5	1346.2	1337.8	1325.1
32.5°	1335.7	1323.0	1293.6	1276.8	1262.0
35°	1285.2	1272.6	1234.7	1207.4	1190.5
37.5°	1230.5	1211.6	1169.5	1131.6	1114.8
40°	1173.7	1152.7	1098.0	1047.5	1032.8
42.5°	1112.7	1087.5	1018.0	965.5	940.2
45°	1047.5	1015.9	936.0	877.1	854.0
47.5°	982.3	942.3	856.1	793.0	767.7
50°	912.9	864.5	771.9	704.6	679.4
52.5°	841.4	788.8	694.1	624.7	605.8
55°	757.2	713.1	612.1	553.2	536.4
57.5°	681.5	633.1	544.8	494.3	481.7
60°	614.2	555.3	477.5	439.6	429.1
62.5°	536.4	483.8	422.8	393.3	382.8
65°	460.6	418.6	374.4	351.3	342.9
67.5°	395.4	359.7	330.2	311.3	307.1
70°	323.9	305.0	288.2	273.4	273.4
72.5°	262.9	256.6	246.1	237.7	231.4
75°	201.9	210.3	206.1	197.7	197.7
77.5°	153.5	166.2	168.3	164.1	166.2
80°	107.3	126.2	130.4	128.3	130.4
82.5°	67.3	90.4	94.7	94.7	96.8
85°	40.0	56.8	58.9	58.9	61.0
87.5°	16.8	27.3	29.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)