

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: P686084

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

Issue Date: 11/18/2022

Test Information

Test Method: LM-79-2019
Report Number: P686084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-125D-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4268.3 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

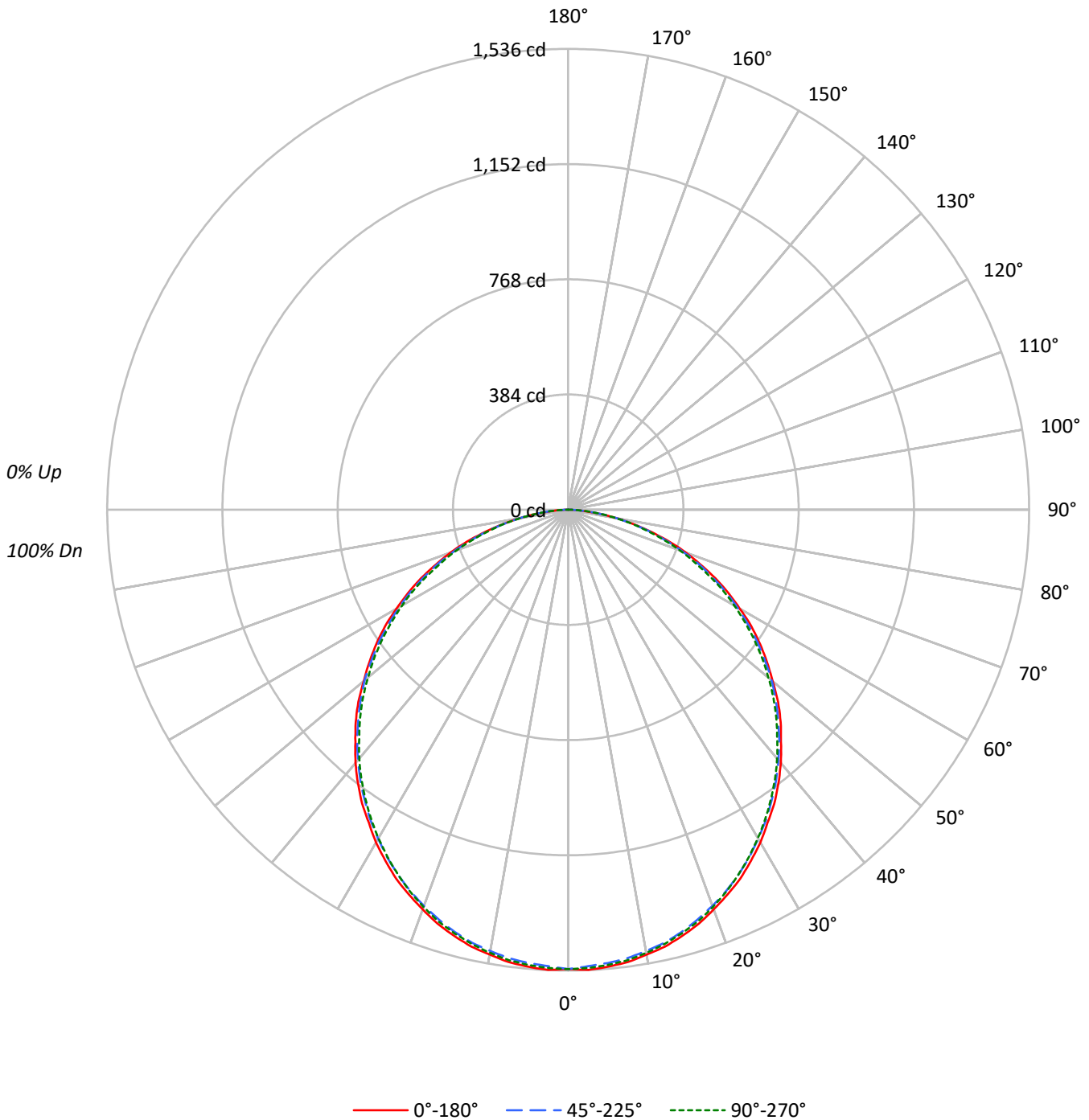
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84					84			
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70					70			
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14742	14742	14742
5°	14778	14657	14717
10°	14722	14599	14661
15°	14654	14529	14571
20°	14525	14396	14439
25°	14412	14256	14256
30°	14240	14077	14053
35°	14066	13893	13844
40°	13852	13694	13614
45°	13631	13460	13346
50°	13325	13263	13042
55°	13099	12921	12709
60°	12718	12516	12311
65°	12315	12028	11739
70°	11724	11369	11130
75°	10642	10408	10170
80°	9098	9098	8982
85°	6506	6970	6970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.4
10°-20°	413.0	9.7
20°-30°	620.8	14.5
30°-40°	741.9	17.4
40°-50°	764.5	17.9
50°-60°	687.9	16.1
60°-70°	523.0	12.3
70°-80°	297.3	7.0
80°-90°	75.1	1.8
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°	1178.6	27.6
0°-40°	1920.6	45.0
0°-60°	3372.9	79.0
0°-90°	4268.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1529	1527	1517	1529	1523	145
15°	1470	1468	1458	1466	1462	415
25°	1357	1352	1342	1346	1342	625
35°	1197	1193	1182	1182	1178	748
45°	1001	1001	989	982	980	771
55°	780	778	770	764	757	697
65°	541	538	528	522	515	533
75°	286	284	280	278	273	304
85°	59	61	63	63	63	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1531.3	1531.3	1531.3	1531.3	1531.3
2.5°	1535.5	1531.3	1522.9	1533.4	1529.2
5°	1529.2	1527.1	1516.6	1529.2	1522.9
7.5°	1520.8	1518.7	1508.1	1518.7	1514.5
10°	1506.0	1503.9	1493.4	1503.9	1499.7
12.5°	1491.3	1489.2	1478.7	1487.1	1482.9
15°	1470.3	1468.2	1457.7	1466.1	1461.9
17.5°	1447.1	1445.0	1432.4	1440.8	1438.7
20°	1417.7	1415.6	1405.1	1411.4	1409.3
22.5°	1388.2	1386.1	1375.6	1381.9	1377.7
25°	1356.7	1352.5	1342.0	1346.2	1342.0
27.5°	1318.8	1316.7	1306.2	1308.3	1304.1
30°	1281.0	1278.9	1266.3	1268.4	1264.1
32.5°	1236.8	1236.8	1226.3	1226.3	1222.1
35°	1196.8	1192.6	1182.1	1182.1	1177.9
37.5°	1150.6	1146.4	1137.9	1135.8	1131.6
40°	1102.2	1100.1	1089.6	1087.5	1083.3
42.5°	1049.6	1051.7	1041.2	1034.9	1030.7
45°	1001.2	1001.2	988.6	982.3	980.2
47.5°	948.6	948.6	938.1	931.8	927.6
50°	889.7	893.9	885.5	875.0	870.8
52.5°	835.1	837.2	826.6	820.3	816.1
55°	780.4	778.3	769.8	763.5	757.2
57.5°	723.6	721.5	708.8	702.5	698.3
60°	660.5	660.5	650.0	643.6	639.4
62.5°	601.6	599.5	591.1	582.6	580.5
65°	540.6	538.5	528.0	521.6	515.3
67.5°	475.4	473.3	467.0	458.5	454.3
70°	416.5	410.2	403.9	397.5	395.4
72.5°	353.4	347.1	340.8	336.5	332.3
75°	286.1	284.0	279.8	277.6	273.4
77.5°	225.1	225.1	220.9	218.8	218.8
80°	164.1	164.1	164.1	162.0	162.0
82.5°	107.3	109.4	109.4	107.3	109.4
85°	58.9	61.0	63.1	63.1	63.1
87.5°	18.9	25.2	23.1	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)