

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: P688629

Luminaire Tested: SQ4R-PW1-125D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688629
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-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.4 lumens
Efficiency: N/A
Efficacy: 76.7 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

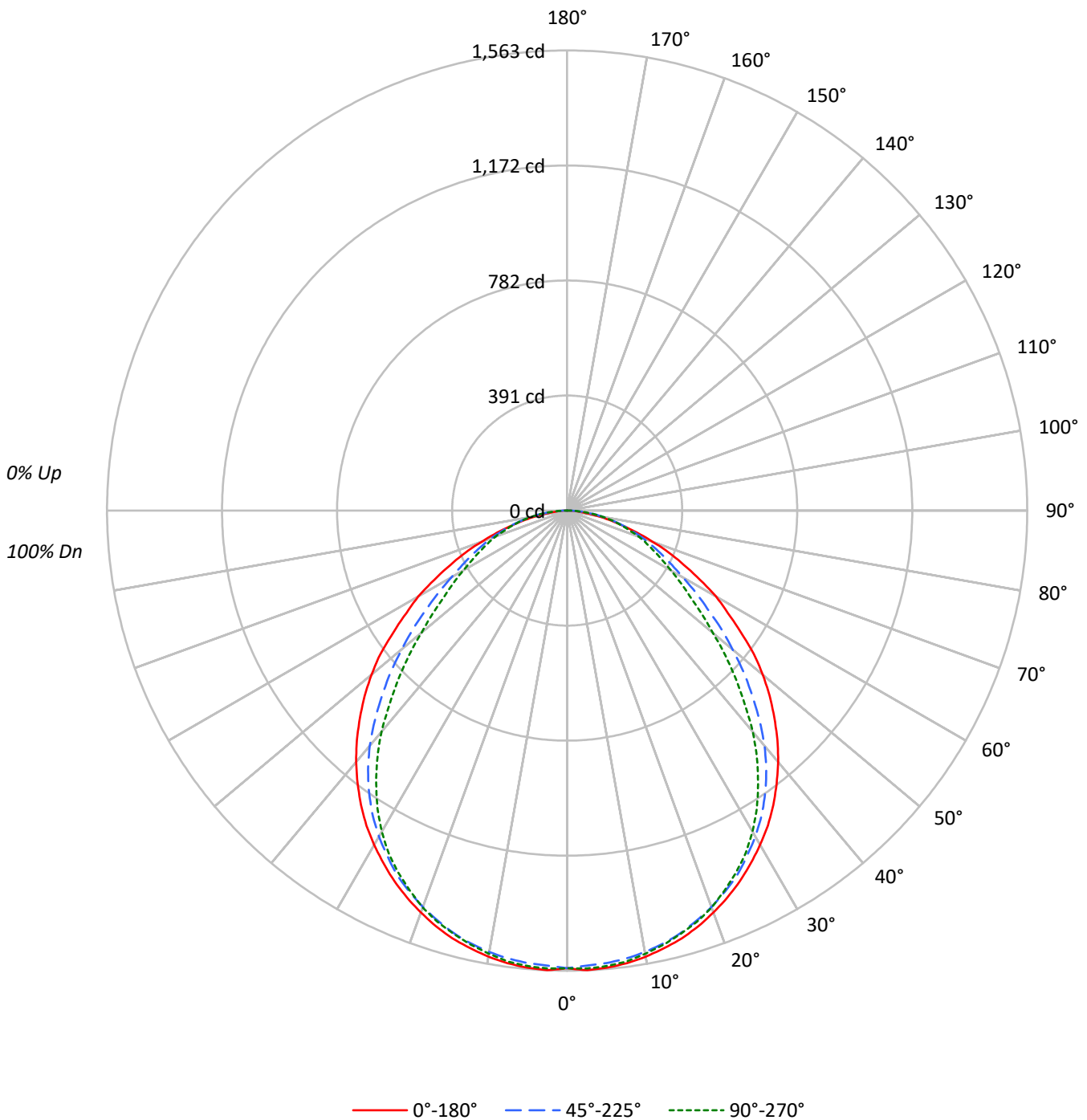
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	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	59	50	44	57	49	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14967	14967	14967
5°	15062	14908	15005
10°	15041	14885	14943
15°	14996	14817	14837
20°	14883	14678	14699
25°	14752	14519	14413
30°	14572	14216	13995
35°	14349	13785	13292
40°	14013	13108	12330
45°	13548	12107	11046
50°	12988	10983	9666
55°	12073	9760	8552
60°	11235	8734	7848
65°	9969	8103	7420
70°	8661	7707	7313
75°	7134	7283	6986
80°	5650	6869	6869
85°	4198	6175	6396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.9
10°-20°	421.3	11.1
20°-30°	631.0	16.6
30°-40°	733.2	19.3
40°-50°	691.7	18.2
50°-60°	539.7	14.2
60°-70°	366.4	9.6
70°-80°	206.3	5.4
80°-90°	61.3	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°	1199.8	31.6
0°-40°	1933.0	50.9
0°-60°	3164.4	83.3
0°-90°	3798.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1559	1555	1543	1555	1553	148
15°	1505	1499	1487	1495	1489	424
25°	1389	1383	1367	1363	1357	640
35°	1221	1209	1173	1147	1131	763
45°	995	965	889	833	811	767
55°	719	677	582	526	510	646
65°	438	398	356	334	326	437
75°	192	200	196	188	188	209
85°	38	54	56	56	58	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1562.6	1558.6	1546.6	1558.6	1556.6
5°	1558.6	1554.6	1542.6	1554.6	1552.6
7.5°	1550.6	1548.6	1534.6	1546.6	1544.6
10°	1538.6	1536.6	1522.6	1532.6	1528.6
12.5°	1522.6	1520.6	1506.6	1514.6	1510.6
15°	1504.6	1498.6	1486.6	1494.6	1488.6
17.5°	1480.7	1474.7	1460.7	1466.7	1464.7
20°	1452.7	1446.7	1432.7	1438.7	1434.7
22.5°	1422.7	1416.7	1400.7	1402.7	1396.7
25°	1388.7	1382.7	1366.8	1362.8	1356.8
27.5°	1350.8	1346.8	1322.8	1318.8	1312.8
30°	1310.8	1304.8	1278.8	1270.8	1258.9
32.5°	1268.8	1256.9	1228.9	1212.9	1198.9
35°	1220.9	1208.9	1172.9	1147.0	1131.0
37.5°	1168.9	1151.0	1111.0	1075.0	1059.0
40°	1115.0	1095.0	1043.0	995.1	981.1
42.5°	1057.0	1033.1	967.1	917.2	893.2
45°	995.1	965.1	889.2	833.2	811.3
47.5°	933.1	895.2	813.3	753.3	729.3
50°	867.2	821.3	733.3	669.4	645.4
52.5°	799.3	749.3	659.4	593.5	575.5
55°	719.3	677.4	581.5	525.5	509.5
57.5°	647.4	601.5	517.5	469.6	457.6
60°	583.5	527.5	453.6	417.6	407.6
62.5°	509.5	459.6	401.6	373.7	363.7
65°	437.6	397.6	355.7	333.7	325.7
67.5°	375.7	341.7	313.7	295.7	291.7
70°	307.7	289.7	273.8	259.8	259.8
72.5°	249.8	243.8	233.8	225.8	219.8
75°	191.8	199.8	195.8	187.8	187.8
77.5°	145.9	157.9	159.9	155.9	157.9
80°	101.9	119.9	123.9	121.9	123.9
82.5°	63.9	85.9	89.9	89.9	91.9
85°	38.0	54.0	55.9	55.9	57.9
87.5°	16.0	26.0	28.0	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)