

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: P688987

Luminaire Tested: SQ4R-PW1-100D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688987
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-PW1-100D-92765-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3981.1 lumens
Efficiency: N/A
Efficacy: 85.8 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

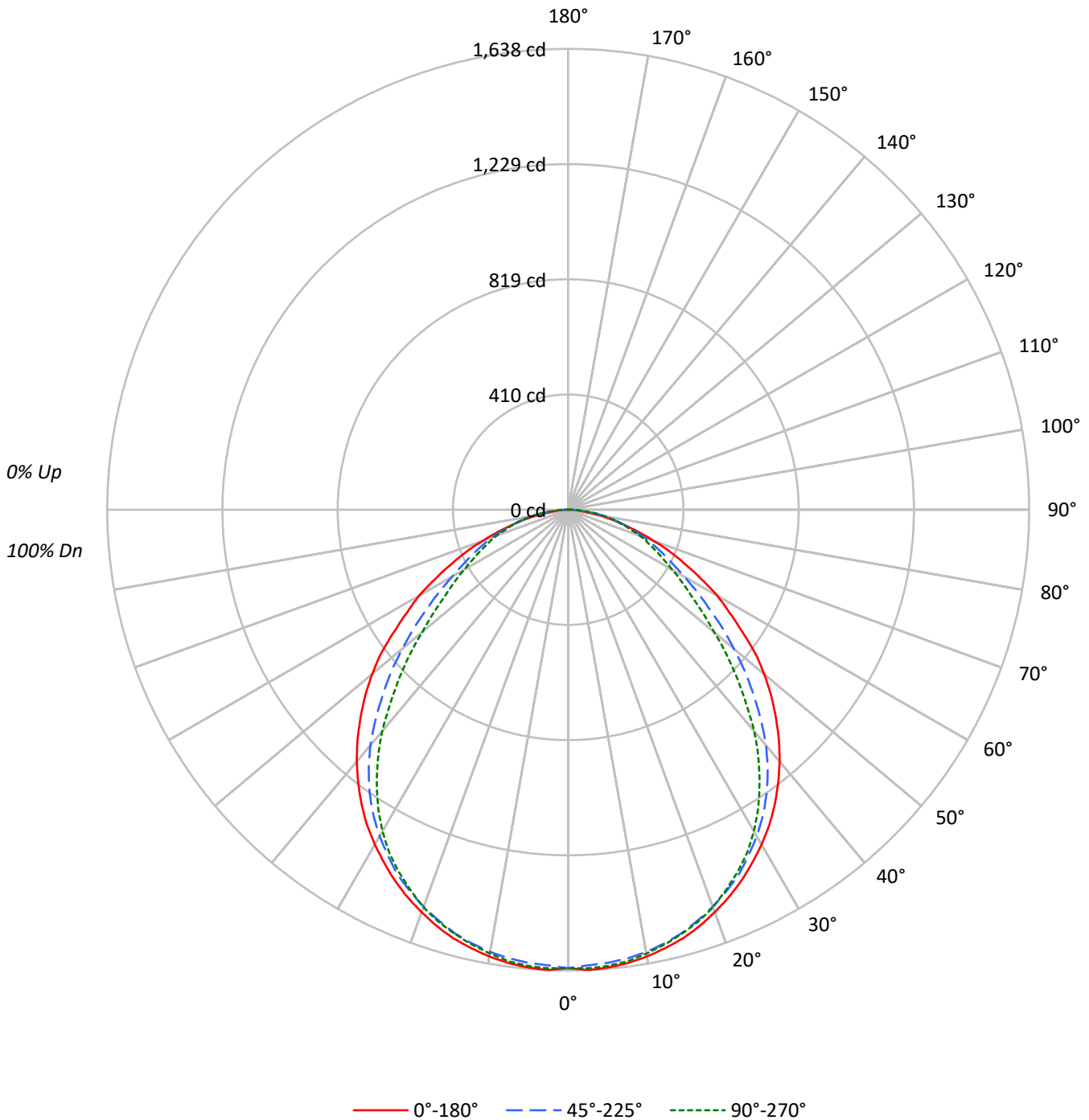
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	15687	15687	15687
5°	15786	15625	15726
10°	15765	15601	15662
15°	15718	15531	15550
20°	15599	15384	15406
25°	15461	15217	15105
30°	15273	14900	14667
35°	15039	14449	13932
40°	14687	13739	12923
45°	14201	12689	11577
50°	13613	11512	10132
55°	12654	10229	8963
60°	11774	9154	8226
65°	10449	8492	7777
70°	9078	8076	7665
75°	7480	7633	7324
80°	5921	7196	7196
85°	4396	6473	6705

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14201 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.9
10°-20°	441.5	11.1
20°-30°	661.4	16.6
30°-40°	768.4	19.3
40°-50°	725.0	18.2
50°-60°	565.7	14.2
60°-70°	384.0	9.6
70°-80°	216.2	5.4
80°-90°	64.2	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°	1257.5	31.6
0°-40°	2026.0	50.9
0°-60°	3316.6	83.3
0°-90°	3981.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1634	1629	1617	1629	1627	155
15°	1577	1571	1558	1566	1560	445
25°	1456	1449	1432	1428	1422	670
35°	1280	1267	1229	1202	1185	799
45°	1043	1012	932	873	850	804
55°	754	710	609	551	534	677
65°	459	417	373	350	341	458
75°	201	209	205	197	197	219
85°	40	56	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°	1629.4	1629.4	1629.4	1629.4	1629.4
2.5°	1637.7	1633.5	1621.0	1633.5	1631.5
5°	1633.5	1629.4	1616.8	1629.4	1627.3
7.5°	1625.2	1623.1	1608.4	1621.0	1618.9
10°	1612.6	1610.5	1595.9	1606.3	1602.1
12.5°	1595.9	1593.8	1579.1	1587.5	1583.3
15°	1577.0	1570.7	1558.2	1566.5	1560.2
17.5°	1551.9	1545.6	1530.9	1537.2	1535.1
20°	1522.6	1516.3	1501.6	1507.9	1503.7
22.5°	1491.1	1484.9	1468.1	1470.2	1463.9
25°	1455.5	1449.3	1432.5	1428.3	1422.0
27.5°	1415.7	1411.6	1386.4	1382.2	1376.0
30°	1373.9	1367.6	1340.3	1332.0	1319.4
32.5°	1329.9	1317.3	1288.0	1271.2	1256.6
35°	1279.6	1267.0	1229.4	1202.1	1185.4
37.5°	1225.2	1206.3	1164.4	1126.7	1110.0
40°	1168.6	1147.7	1093.2	1043.0	1028.3
42.5°	1107.9	1082.8	1013.6	961.3	936.1
45°	1043.0	1011.5	932.0	873.3	850.3
47.5°	978.0	938.2	852.4	789.5	764.4
50°	908.9	860.8	768.6	701.6	676.5
52.5°	837.7	785.4	691.1	622.0	603.2
55°	753.9	710.0	609.4	550.8	534.0
57.5°	678.6	630.4	542.4	492.2	479.6
60°	611.5	552.9	475.4	437.7	427.2
62.5°	534.0	481.7	421.0	391.6	381.2
65°	458.7	416.8	372.8	349.7	341.4
67.5°	393.7	358.1	328.8	310.0	305.8
70°	322.5	303.7	286.9	272.3	272.3
72.5°	261.8	255.5	245.0	236.7	230.4
75°	201.1	209.4	205.2	196.9	196.9
77.5°	152.9	165.4	167.5	163.4	165.4
80°	106.8	125.7	129.8	127.8	129.8
82.5°	67.0	90.1	94.2	94.2	96.3
85°	39.8	56.5	58.6	58.6	60.7
87.5°	16.8	27.2	29.3	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)