

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: P688813

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2655.7 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

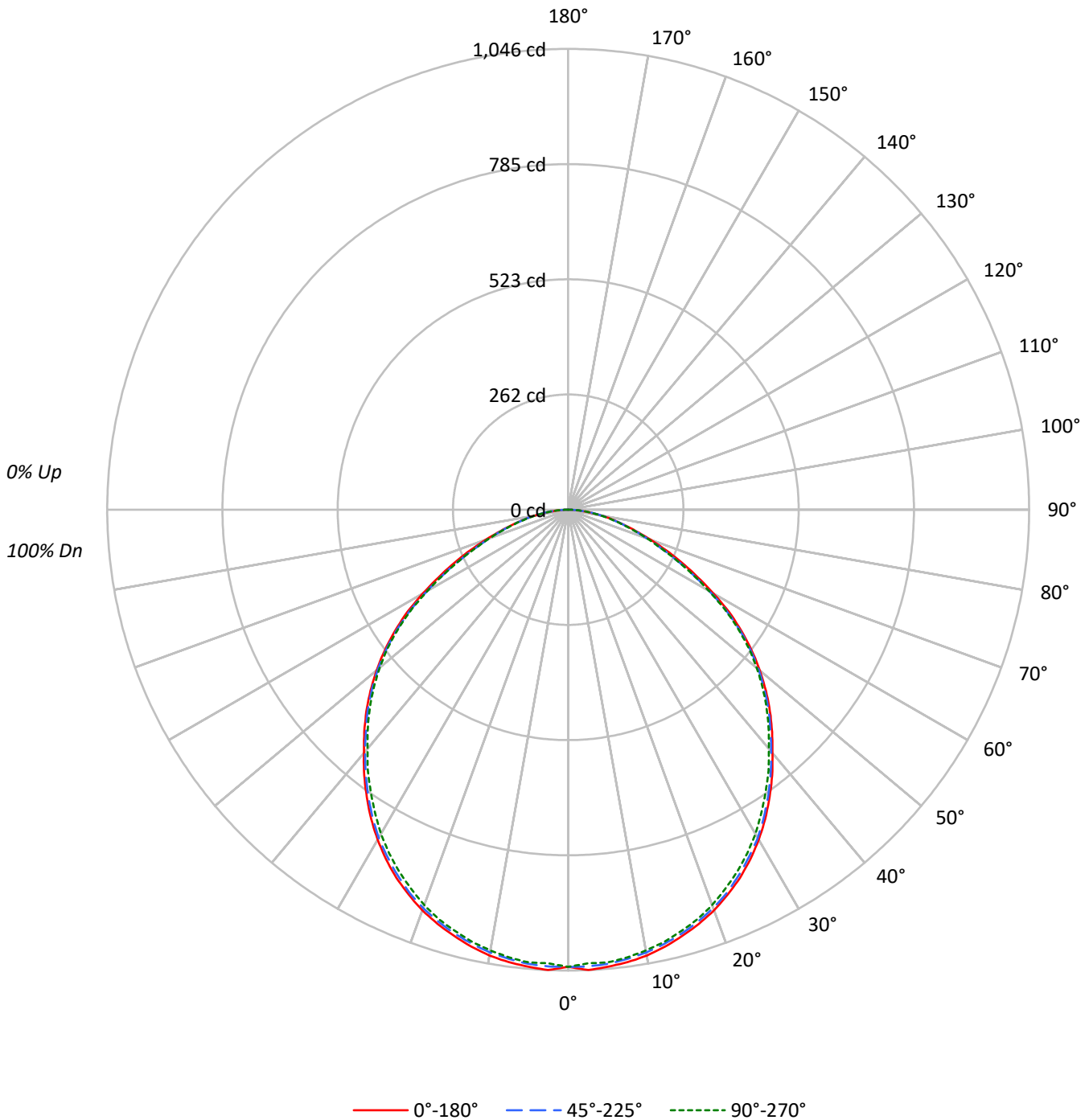
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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
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	98	95	93	95	92	90	91	89	87	85	85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72	72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46	46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40	40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36	36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32	32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29	29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26	26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9989	9989	9989
5°	10063	10001	9967
10°	10046	9975	9930
15°	9980	9925	9870
20°	9913	9858	9783
25°	9795	9728	9632
30°	9614	9564	9443
35°	9362	9299	9181
40°	9064	9006	8903
45°	8816	8755	8667
50°	8500	8444	8363
55°	8060	7953	7892
60°	7336	7126	7092
65°	6463	6194	6173
70°	5582	5351	5351
75°	4802	4735	4668
80°	4236	4286	4186
85°	3314	3612	3612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.7
10°-20°	280.3	10.6
20°-30°	419.9	15.8
30°-40°	492.5	18.5
40°-50°	494.0	18.6
50°-60°	421.8	15.9
60°-70°	274.1	10.3
70°-80°	137.3	5.2
80°-90°	37.6	1.4
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°	798.4	30.1
0°-40°	1290.8	48.6
0°-60°	2206.6	83.1
0°-90°	2655.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1041	1031	1035	1031	1031	99
15°	1001	991	996	992	990	283
25°	922	911	916	908	907	424
35°	797	788	791	782	781	498
45°	648	643	643	637	637	499
55°	480	478	474	471	470	427
65°	284	278	272	270	271	283
75°	129	129	127	126	126	140
85°	30	33	33	33	33	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.6	1037.6	1037.6	1037.6	1037.6
2.5°	1045.8	1034.9	1037.6	1035.8	1030.4
5°	1041.3	1031.3	1034.9	1031.3	1031.3
7.5°	1035.8	1024.9	1028.5	1024.9	1024.9
10°	1027.6	1016.7	1020.4	1016.7	1015.8
12.5°	1015.8	1004.9	1009.4	1004.9	1004.9
15°	1001.3	991.3	995.8	992.2	990.3
17.5°	985.8	974.9	980.3	975.8	974.9
20°	967.6	956.7	962.2	954.9	954.9
22.5°	945.8	934.9	941.2	931.2	931.2
25°	922.1	911.2	915.8	907.6	906.7
27.5°	894.9	883.9	888.5	879.4	879.4
30°	864.8	854.8	860.3	850.3	849.4
32.5°	832.1	823.0	826.7	816.7	815.7
35°	796.6	788.5	791.2	782.1	781.2
37.5°	760.3	751.2	754.8	746.6	746.6
40°	721.2	715.7	716.6	710.2	708.4
42.5°	684.8	678.4	679.3	673.0	673.0
45°	647.5	643.0	643.0	636.6	636.6
47.5°	608.4	604.8	603.8	598.4	598.4
50°	567.5	564.7	563.8	559.3	558.4
52.5°	524.7	523.8	520.2	516.5	516.5
55°	480.2	478.4	473.8	471.1	470.2
57.5°	432.9	429.2	424.7	420.1	421.1
60°	381.0	377.4	370.1	368.3	368.3
62.5°	331.0	326.5	319.2	316.5	318.3
65°	283.7	278.3	271.9	270.1	271.0
67.5°	240.1	234.6	227.4	227.4	226.4
70°	198.3	195.5	190.1	190.1	190.1
72.5°	161.0	160.1	156.4	156.4	155.5
75°	129.1	129.1	127.3	126.4	125.5
77.5°	101.9	101.9	100.9	100.0	98.2
80°	76.4	78.2	77.3	76.4	75.5
82.5°	52.7	54.6	54.6	52.7	52.7
85°	30.0	32.7	32.7	32.7	32.7
87.5°	10.0	13.6	14.6	14.6	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)