

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: P688815

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688815
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_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2827.6 lumens
Efficiency: N/A
Efficacy: 86.2 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

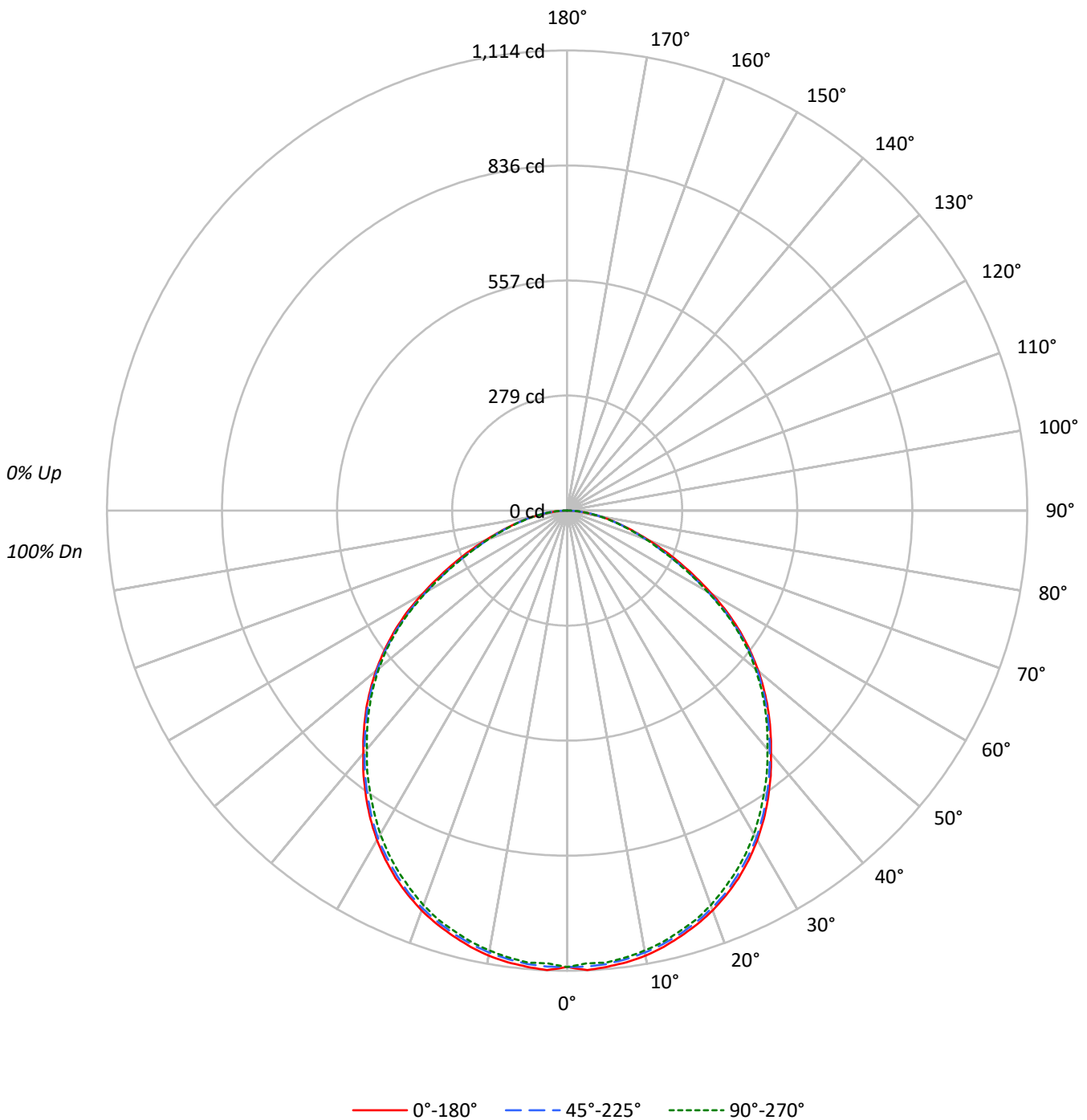
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688815

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P688815

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10636	10636	10636
5°	10715	10649	10611
10°	10696	10620	10574
15°	10626	10568	10509
20°	10555	10495	10416
25°	10429	10357	10255
30°	10236	10183	10054
35°	9969	9901	9775
40°	9649	9589	9480
45°	9386	9321	9228
50°	9049	8991	8904
55°	8580	8468	8402
60°	7812	7588	7550
65°	6882	6595	6572
70°	5942	5697	5697
75°	5115	5044	4970
80°	4507	4563	4458
85°	3535	3855	3855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9386 cd/sqm

TEST NUMBER: P688815

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.7
10°-20°	298.5	10.6
20°-30°	447.1	15.8
30°-40°	524.3	18.5
40°-50°	526.0	18.6
50°-60°	449.1	15.9
60°-70°	291.9	10.3
70°-80°	146.2	5.2
80°-90°	40.1	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°	850.0	30.1
0°-40°	1374.4	48.6
0°-60°	2349.4	83.1
0°-90°	2827.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1109	1098	1102	1098	1098	105
15°	1066	1055	1060	1056	1054	301
25°	982	970	975	966	965	452
35°	848	840	842	833	832	530
45°	689	685	685	678	678	531
55°	511	509	504	502	501	455
65°	302	296	290	288	288	301
75°	138	138	136	135	134	149
85°	32	35	35	35	35	38
90°	0	0	0	0	0	

TEST NUMBER: P688815

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.8	1104.8	1104.8	1104.8	1104.8
2.5°	1113.5	1101.9	1104.8	1102.9	1097.0
5°	1108.7	1098.0	1101.9	1098.0	1098.0
7.5°	1102.9	1091.2	1095.1	1091.2	1091.2
10°	1094.1	1082.5	1086.4	1082.5	1081.6
12.5°	1081.6	1069.9	1074.8	1069.9	1069.9
15°	1066.1	1055.4	1060.3	1056.4	1054.4
17.5°	1049.6	1038.0	1043.8	1038.9	1038.0
20°	1030.2	1018.6	1024.4	1016.7	1016.7
22.5°	1007.0	995.4	1002.2	991.5	991.5
25°	981.8	970.2	975.0	966.3	965.4
27.5°	952.8	941.2	946.0	936.3	936.3
30°	920.8	910.2	916.0	905.3	904.4
32.5°	886.0	876.3	880.2	869.5	868.5
35°	848.2	839.5	842.4	832.7	831.7
37.5°	809.5	799.8	803.7	794.9	794.9
40°	767.8	762.0	763.0	756.2	754.3
42.5°	729.1	722.3	723.3	716.5	716.5
45°	689.4	684.6	684.6	677.8	677.8
47.5°	647.8	643.9	642.9	637.1	637.1
50°	604.2	601.3	600.3	595.5	594.5
52.5°	558.7	557.7	553.8	550.0	550.0
55°	511.2	509.3	504.5	501.6	500.6
57.5°	460.9	457.0	452.2	447.3	448.3
60°	405.7	401.8	394.1	392.1	392.1
62.5°	352.4	347.6	339.9	337.0	338.9
65°	302.1	296.3	289.5	287.6	288.5
67.5°	255.6	249.8	242.1	242.1	241.1
70°	211.1	208.2	202.4	202.4	202.4
72.5°	171.4	170.4	166.5	166.5	165.6
75°	137.5	137.5	135.6	134.6	133.6
77.5°	108.4	108.4	107.5	106.5	104.6
80°	81.3	83.3	82.3	81.3	80.4
82.5°	56.2	58.1	58.1	56.2	56.2
85°	32.0	34.9	34.9	34.9	34.9
87.5°	10.7	14.5	15.5	15.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)