

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: P688979

Luminaire Tested: SQ4R-PW1-075D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688979
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-PW1-075D-93050-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3009.7 lumens
Efficiency: N/A
Efficacy: 91.2 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

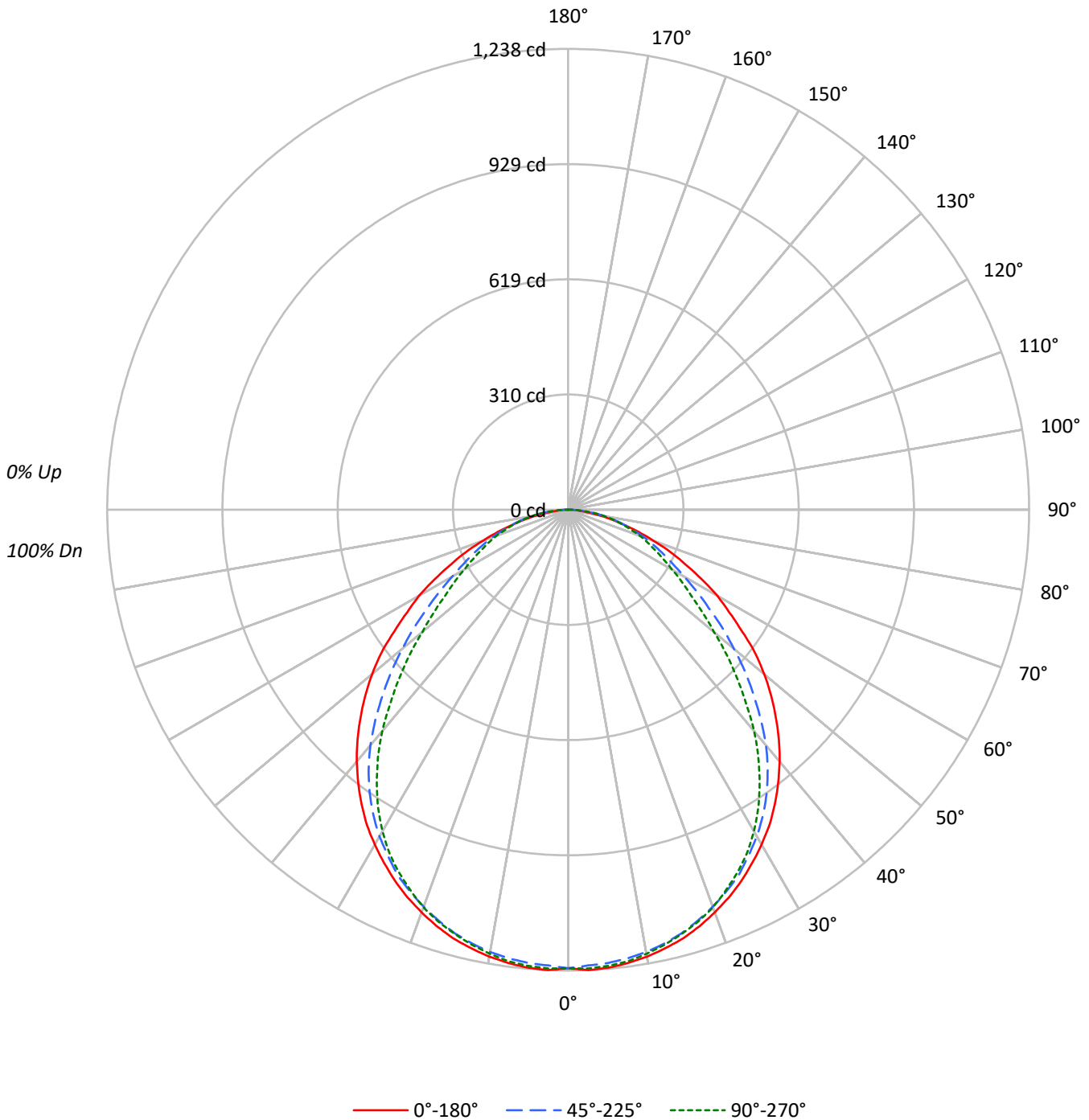
Input Watts (W): 33
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688979

CATALOG NUMBER: SQ4R-PW1-075D-93050-1-UNV-STD-W-4_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P688979

CATALOG NUMBER: SQ4R-PW1-075D-93050-1-UNV-STD-W-4_4000K

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	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°	11859	11859	11859
5°	11935	11812	11889
10°	11918	11795	11841
15°	11883	11741	11756
20°	11792	11630	11647
25°	11689	11504	11420
30°	11546	11265	11089
35°	11370	10923	10532
40°	11103	10387	9770
45°	10736	9593	8752
50°	10291	8703	7659
55°	9567	7733	6776
60°	8901	6920	6219
65°	7898	6419	5880
70°	6863	6105	5793
75°	5654	5773	5535
80°	4474	5444	5444
85°	3325	4893	5070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10736 cd/sqm

TEST NUMBER: P688979

CATALOG NUMBER: SQ4R-PW1-075D-93050-1-UNV-STD-W-4_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.9
10°-20°	333.8	11.1
20°-30°	500.0	16.6
30°-40°	580.9	19.3
40°-50°	548.1	18.2
50°-60°	427.6	14.2
60°-70°	290.3	9.6
70°-80°	163.5	5.4
80°-90°	48.5	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°	950.7	31.6
0°-40°	1531.6	50.9
0°-60°	2507.4	83.3
0°-90°	3009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3009.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1235	1232	1222	1232	1230	117
15°	1192	1188	1178	1184	1180	336
25°	1100	1096	1083	1080	1075	507
35°	967	958	929	909	896	604
45°	788	765	705	660	643	608
55°	570	537	461	416	404	512
65°	347	315	282	264	258	346
75°	152	158	155	149	149	165
85°	30	43	44	44	46	36
90°	0	0	0	0	0	

TEST NUMBER: P688979

CATALOG NUMBER: SQ4R-PW1-075D-93050-1-UNV-STD-W-4_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.8	1231.8	1231.8	1231.8	1231.8
2.5°	1238.1	1235.0	1225.5	1235.0	1233.4
5°	1235.0	1231.8	1222.3	1231.8	1230.2
7.5°	1228.6	1227.0	1216.0	1225.5	1223.9
10°	1219.1	1217.5	1206.5	1214.4	1211.2
12.5°	1206.5	1204.9	1193.8	1200.1	1197.0
15°	1192.2	1187.5	1178.0	1184.3	1179.5
17.5°	1173.2	1168.5	1157.4	1162.1	1160.5
20°	1151.0	1146.3	1135.2	1140.0	1136.8
22.5°	1127.3	1122.5	1109.9	1111.5	1106.7
25°	1100.4	1095.6	1083.0	1079.8	1075.1
27.5°	1070.3	1067.1	1048.1	1045.0	1040.2
30°	1038.6	1033.9	1013.3	1007.0	997.5
32.5°	1005.4	995.9	973.7	961.1	950.0
35°	967.4	957.9	929.4	908.8	896.1
37.5°	926.2	912.0	880.3	851.8	839.1
40°	883.5	867.6	826.5	788.5	777.4
42.5°	837.6	818.6	766.3	726.7	707.7
45°	788.5	764.7	704.6	660.2	642.8
47.5°	739.4	709.3	644.4	596.9	577.9
50°	687.1	650.7	581.1	530.4	511.4
52.5°	633.3	593.7	522.5	470.2	456.0
55°	570.0	536.7	460.7	416.4	403.7
57.5°	513.0	476.6	410.1	372.1	362.6
60°	462.3	418.0	359.4	330.9	323.0
62.5°	403.7	364.2	318.2	296.1	288.2
65°	346.7	315.1	281.8	264.4	258.1
67.5°	297.7	270.7	248.6	234.3	231.2
70°	243.8	229.6	216.9	205.8	205.8
72.5°	197.9	193.2	185.2	178.9	174.2
75°	152.0	158.3	155.2	148.8	148.8
77.5°	115.6	125.1	126.7	123.5	125.1
80°	80.7	95.0	98.2	96.6	98.2
82.5°	50.7	68.1	71.2	71.2	72.8
85°	30.1	42.7	44.3	44.3	45.9
87.5°	12.7	20.6	22.2	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)