

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: P688485

Luminaire Tested: SQ4R-PC3-125D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-125D-930-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 4010.7 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

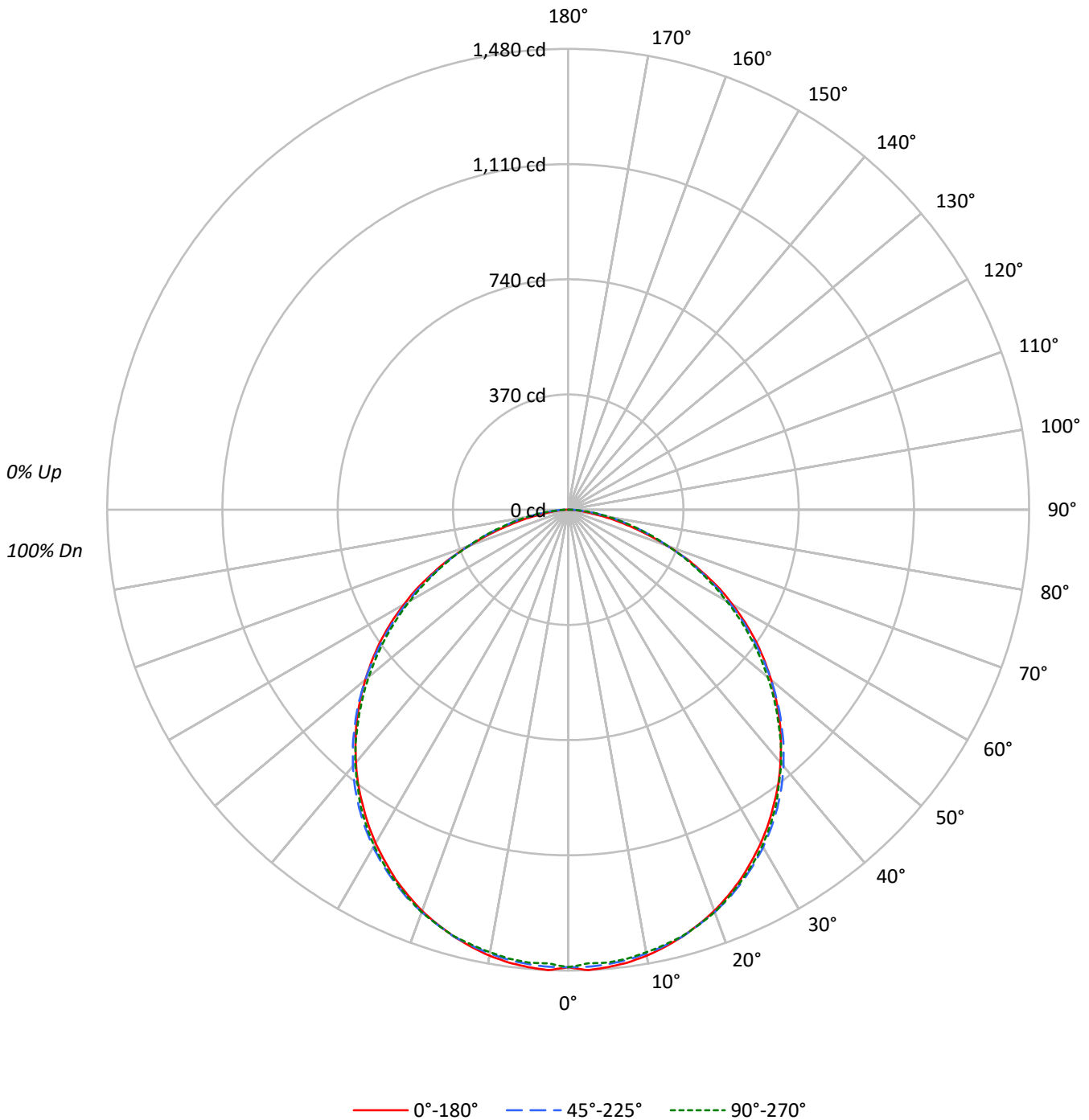
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688485

CATALOG NUMBER: SQ4R-PC3-125D-930-1-UNV-STD-W-4

### Luminous Intensity Polar Plot



TEST NUMBER: P688485

CATALOG NUMBER: SQ4R-PC3-125D-930-1-UNV-STD-W-4

**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	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14145	14145	14145
5°	14252	14160	14108
10°	14217	14151	14111
15°	14143	14143	14129
20°	14050	14091	14091
25°	13917	14019	13975
30°	13748	13914	13854
35°	13543	13751	13654
40°	13319	13508	13371
45°	13077	13170	12966
50°	12735	12735	12532
55°	12332	12171	11988
60°	11736	11499	11316
65°	10848	10629	10538
70°	9497	9573	9537
75°	7640	8451	8503
80°	5433	7163	7241
85°	3303	6009	6009

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 13170 cd/sqm

TEST NUMBER: P688485

CATALOG NUMBER: SQ4R-PC3-125D-930-1-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	3.5
10°-20°	399.3	10.0
20°-30°	604.6	15.1
30°-40°	725.0	18.1
40°-50°	739.1	18.4
50°-60°	645.1	16.1
60°-70°	461.9	11.5
70°-80°	237.3	5.9
80°-90°	59.4	1.5
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°	1143.0	28.5
0°-40°	1867.9	46.6
0°-60°	3252.2	81.1
0°-90°	4010.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1475	1460	1465	1461	1460	140
15°	1419	1407	1419	1419	1418	400
25°	1310	1301	1320	1316	1316	603
35°	1152	1150	1170	1162	1162	721
45°	960	958	967	955	952	740
55°	735	725	725	714	714	655
65°	476	465	467	463	463	472
75°	205	215	227	229	229	221
85°	30	46	54	56	54	40
90°	0	0	0	0	0	

TEST NUMBER: P688485

CATALOG NUMBER: SQ4R-PC3-125D-930-1-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1469.3	1469.3	1469.3	1469.3	1469.3
2.5°	1480.2	1463.9	1469.3	1465.2	1458.4
5°	1474.7	1459.8	1465.2	1461.1	1459.8
7.5°	1466.6	1451.6	1458.4	1455.7	1454.3
10°	1454.3	1439.4	1447.5	1444.8	1443.5
12.5°	1438.0	1424.4	1433.9	1431.2	1431.2
15°	1419.0	1406.7	1419.0	1419.0	1417.6
17.5°	1395.8	1385.0	1397.2	1398.6	1397.2
20°	1371.4	1359.1	1375.4	1374.1	1375.4
22.5°	1341.4	1331.9	1349.6	1345.5	1346.9
25°	1310.1	1300.6	1319.7	1315.6	1315.6
27.5°	1273.4	1266.6	1287.0	1282.9	1282.9
30°	1236.7	1229.9	1251.6	1246.2	1246.2
32.5°	1195.9	1191.8	1212.2	1205.4	1205.4
35°	1152.3	1149.6	1170.0	1161.8	1161.8
37.5°	1108.8	1106.1	1125.1	1115.6	1111.5
40°	1059.8	1058.4	1074.8	1063.9	1063.9
42.5°	1010.8	1009.5	1023.1	1009.5	1009.5
45°	960.5	957.8	967.3	955.0	952.3
47.5°	906.1	903.4	910.2	896.5	895.2
50°	850.3	847.6	850.3	838.0	836.7
52.5°	793.2	787.7	787.7	775.5	775.5
55°	734.7	725.1	725.1	714.2	714.2
57.5°	673.4	661.2	662.5	653.0	651.7
60°	609.5	595.9	597.2	589.1	587.7
62.5°	546.9	530.6	534.7	525.1	525.1
65°	476.2	465.3	466.6	462.6	462.6
67.5°	410.9	400.0	406.8	402.7	402.7
70°	337.4	330.6	340.1	340.1	338.8
72.5°	269.4	270.7	283.0	283.0	284.3
75°	205.4	215.0	227.2	228.6	228.6
77.5°	146.9	163.3	176.9	176.9	176.9
80°	98.0	117.0	129.2	132.0	130.6
82.5°	58.5	78.9	88.4	91.2	89.8
85°	29.9	46.3	54.4	55.8	54.4
87.5°	10.9	23.1	27.2	27.2	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)