

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: P688510

Luminaire Tested: SQ4R-PH1-075D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-075D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX 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: 2332.2 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

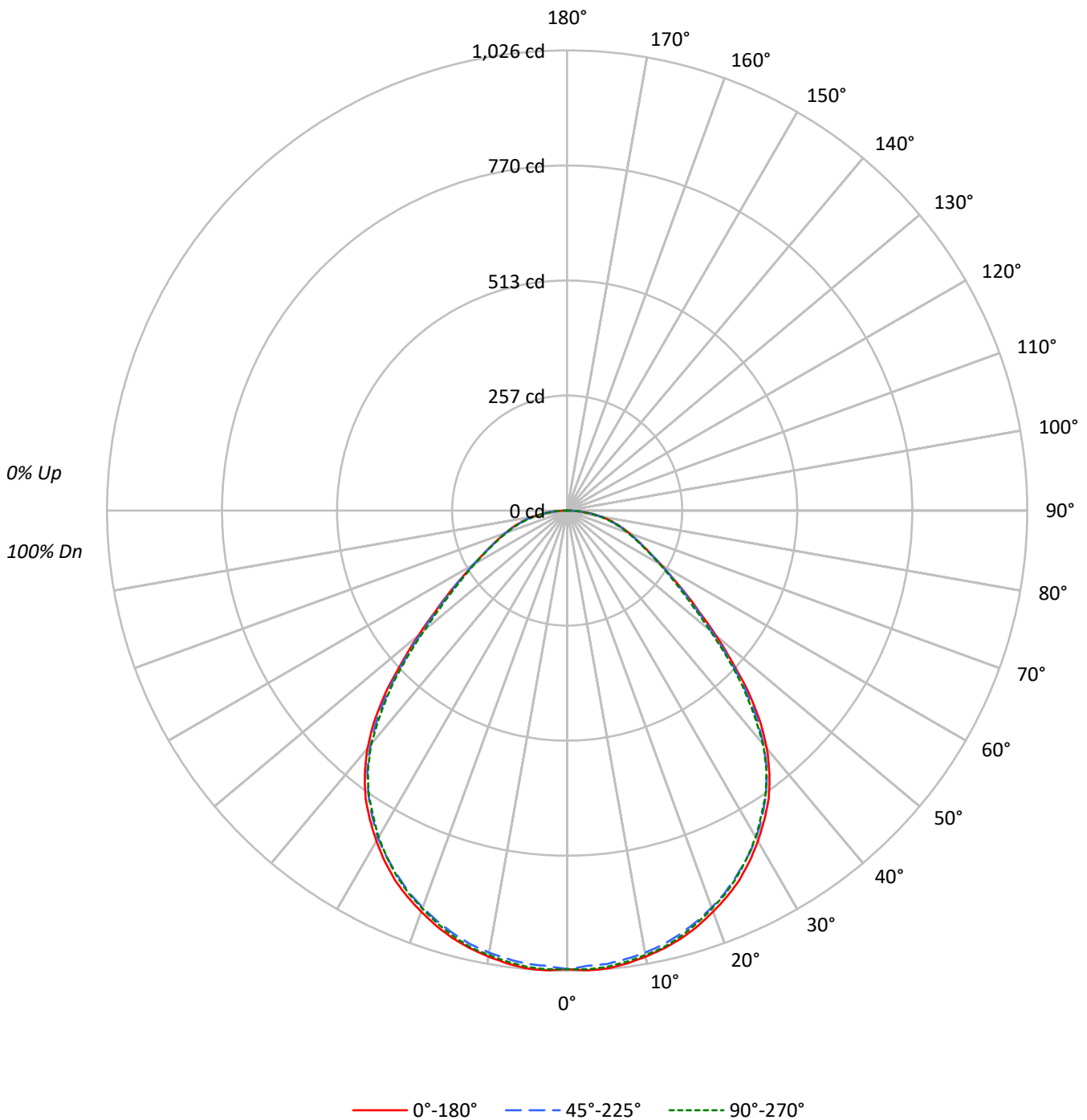
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688510

CATALOG NUMBER: SQ4R-PH1-075D-935-1-UNV-STD-W-4

### Luminous Intensity Polar Plot



TEST NUMBER: P688510

CATALOG NUMBER: SQ4R-PH1-075D-935-1-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	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	9843	9843	9843
5°	9905	9807	9868
10°	9872	9785	9835
15°	9838	9738	9788
20°	9750	9647	9672
25°	9654	9520	9547
30°	9457	9374	9345
35°	9212	9079	9064
40°	8709	8566	8535
45°	7767	7614	7526
50°	6484	6352	6220
55°	5403	5339	5212
60°	4642	4665	4569
65°	4255	4226	4169
70°	4121	4087	4014
75°	4177	4084	3991
80°	4197	4130	3986
85°	4043	4043	3767

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7767 cd/sqm

TEST NUMBER: P688510

CATALOG NUMBER: SQ4R-PH1-075D-935-1-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	4.2
10°-20°	277.0	11.9
20°-30°	415.0	17.8
30°-40°	482.9	20.7
40°-50°	429.5	18.4
50°-60°	288.4	12.4
60°-70°	186.4	8.0
70°-80°	116.2	5.0
80°-90°	39.8	1.7
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°	789.0	33.8
0°-40°	1271.9	54.5
0°-60°	1989.7	85.3
0°-90°	2332.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1025	1022	1015	1022	1021	97
15°	987	984	977	983	982	278
25°	909	905	896	901	899	418
35°	784	780	772	772	771	487
45°	570	568	559	552	553	436
55°	322	322	318	313	310	292
65°	187	188	186	184	183	187
75°	112	111	110	110	107	118
85°	37	38	37	35	34	41
90°	0	0	0	0	0	

TEST NUMBER: P688510

CATALOG NUMBER: SQ4R-PH1-075D-935-1-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1026.2	1023.7	1016.1	1024.9	1023.7
5°	1024.9	1022.4	1014.8	1022.4	1021.1
7.5°	1018.6	1017.3	1008.5	1017.3	1014.8
10°	1009.8	1009.8	1000.9	1008.5	1006.0
12.5°	999.7	998.4	990.8	998.4	997.1
15°	987.1	984.5	977.0	983.3	982.0
17.5°	970.6	969.4	960.5	966.9	964.3
20°	951.7	949.2	941.6	946.7	944.1
22.5°	931.5	929.0	921.4	925.2	923.9
25°	908.8	905.0	896.2	901.2	898.7
27.5°	881.0	879.8	870.9	873.5	870.9
30°	850.7	849.5	843.2	843.2	840.6
32.5°	817.9	819.2	809.1	810.3	805.3
35°	783.8	780.0	772.5	772.5	771.2
37.5°	740.9	738.4	732.1	730.8	729.6
40°	693.0	690.4	681.6	679.1	679.1
42.5°	636.2	633.6	624.8	621.0	616.0
45°	570.5	568.0	559.2	551.6	552.8
47.5°	497.3	499.8	491.0	484.7	483.4
50°	432.9	431.7	424.1	420.3	415.3
52.5°	371.1	372.4	366.0	363.5	357.2
55°	321.9	321.9	318.1	313.0	310.5
57.5°	277.7	280.2	276.4	273.9	271.4
60°	241.1	242.3	242.3	237.3	237.3
62.5°	210.8	212.1	210.8	208.3	208.3
65°	186.8	188.1	185.5	184.3	183.0
67.5°	165.3	166.6	165.3	164.1	161.6
70°	146.4	146.4	145.2	145.2	142.6
72.5°	130.0	128.7	127.5	127.5	126.2
75°	112.3	111.1	109.8	109.8	107.3
77.5°	94.7	93.4	93.4	90.9	89.6
80°	75.7	75.7	74.5	73.2	71.9
82.5°	58.1	56.8	55.5	54.3	53.0
85°	36.6	37.9	36.6	35.3	34.1
87.5°	16.4	17.7	17.7	17.7	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)