

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: P688658

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4\_3000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688658  
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-PC3-075D-92765-1-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2784.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

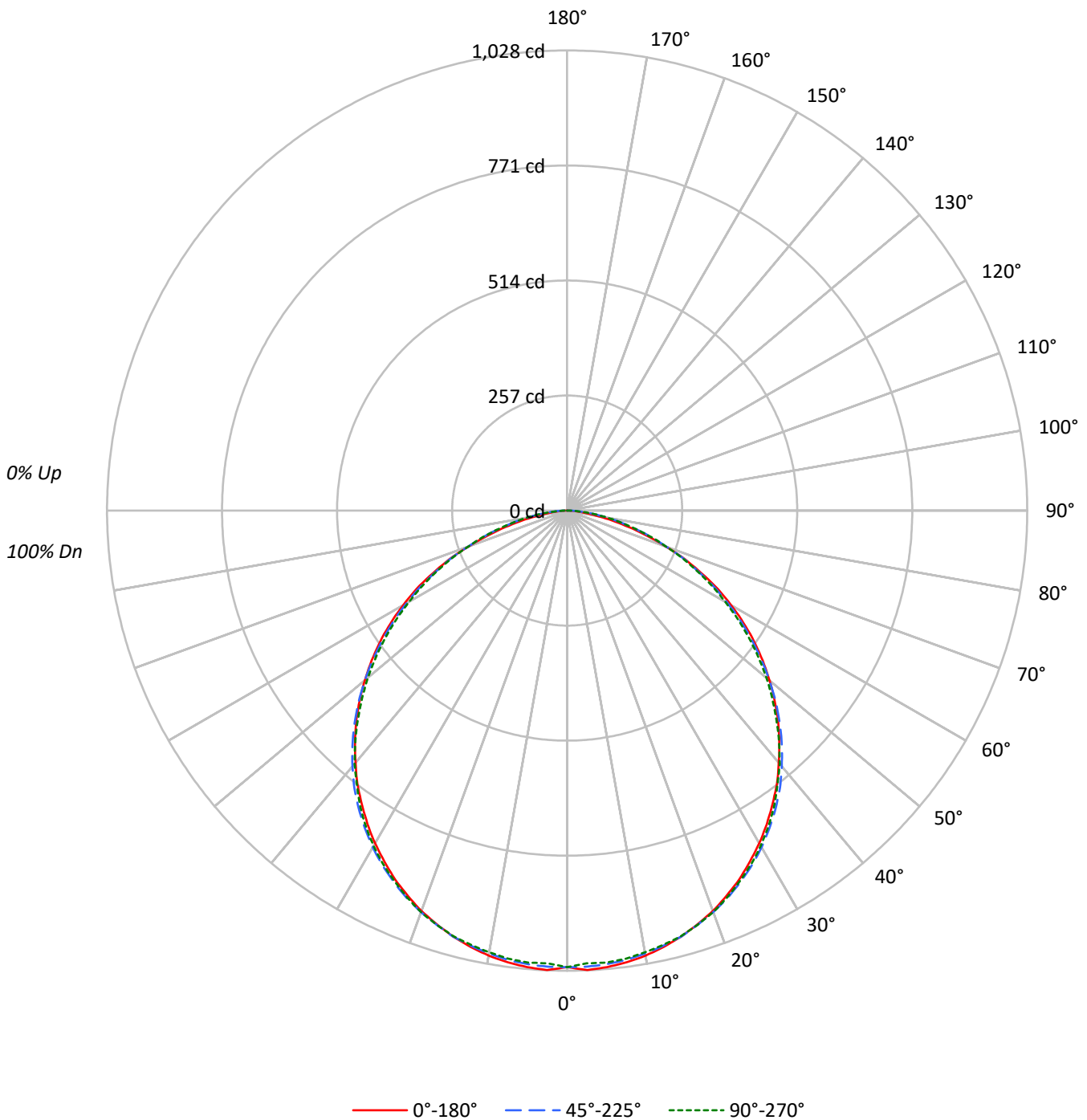
Input Watts (W): 32.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P688658

CATALOG NUMBER: SQ4R-PC3-075D-92765-1-UNV-STD-W-4\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P688658

CATALOG NUMBER: SQ4R-PC3-075D-92765-1-UNV-STD-W-4\_3000K

**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°	9819	9819	9819
5°	9893	9829	9793
10°	9869	9823	9795
15°	9817	9817	9807
20°	9752	9781	9781
25°	9660	9730	9701
30°	9543	9658	9616
35°	9401	9544	9479
40°	9246	9375	9281
45°	9077	9141	9001
50°	8840	8840	8699
55°	8560	8448	8322
60°	8147	7983	7856
65°	7529	7379	7315
70°	6592	6646	6618
75°	5304	5866	5903
80°	3770	4973	5029
85°	2298	4175	4175

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9141 cd/sqm

TEST NUMBER: P688658

CATALOG NUMBER: SQ4R-PC3-075D-92765-1-UNV-STD-W-4\_3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.6	3.5
10°-20°	277.1	10.0
20°-30°	419.7	15.1
30°-40°	503.2	18.1
40°-50°	513.1	18.4
50°-60°	447.8	16.1
60°-70°	320.6	11.5
70°-80°	164.7	5.9
80°-90°	41.2	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°	793.4	28.5
0°-40°	1296.6	46.6
0°-60°	2257.5	81.1
0°-90°	2784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1024	1013	1017	1014	1013	97
15°	985	976	985	985	984	278
25°	909	903	916	913	913	419
35°	800	798	812	806	806	501
45°	667	665	671	663	661	514
55°	510	503	503	496	496	455
65°	330	323	324	321	321	327
75°	143	149	158	159	159	153
85°	21	32	38	39	38	28
90°	0	0	0	0	0	

TEST NUMBER: P688658

CATALOG NUMBER: SQ4R-PC3-075D-92765-1-UNV-STD-W-4\_3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1027.5	1016.1	1019.9	1017.1	1012.4
5°	1023.7	1013.3	1017.1	1014.2	1013.3
7.5°	1018.0	1007.6	1012.4	1010.5	1009.5
10°	1009.5	999.1	1004.8	1002.9	1002.0
12.5°	998.2	988.7	995.4	993.5	993.5
15°	985.0	976.5	985.0	985.0	984.0
17.5°	968.9	961.4	969.9	970.8	969.9
20°	951.9	943.4	954.7	953.8	954.7
22.5°	931.1	924.5	936.8	934.0	934.9
25°	909.4	902.8	916.0	913.2	913.2
27.5°	883.9	879.2	893.4	890.5	890.5
30°	858.4	853.7	868.8	865.0	865.0
32.5°	830.1	827.3	841.4	836.7	836.7
35°	799.9	798.0	812.1	806.5	806.5
37.5°	769.7	767.8	781.0	774.4	771.5
40°	735.7	734.7	746.0	738.5	738.5
42.5°	701.7	700.7	710.2	700.7	700.7
45°	666.7	664.8	671.4	662.9	661.1
47.5°	628.9	627.1	631.8	622.3	621.4
50°	590.2	588.3	590.2	581.7	580.8
52.5°	550.6	546.8	546.8	538.3	538.3
55°	510.0	503.3	503.3	495.8	495.8
57.5°	467.5	459.0	459.9	453.3	452.3
60°	423.1	413.6	414.6	408.9	408.0
62.5°	379.6	368.3	371.1	364.5	364.5
65°	330.5	323.0	323.9	321.1	321.1
67.5°	285.2	277.6	282.4	279.5	279.5
70°	234.2	229.5	236.1	236.1	235.1
72.5°	187.0	187.9	196.4	196.4	197.4
75°	142.6	149.2	157.7	158.7	158.7
77.5°	102.0	113.3	122.8	122.8	122.8
80°	68.0	81.2	89.7	91.6	90.7
82.5°	40.6	54.8	61.4	63.3	62.3
85°	20.8	32.1	37.8	38.7	37.8
87.5°	7.6	16.1	18.9	18.9	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)