

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: P688656

Luminaire Tested: SQ4R-PC3-050D-93050-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688656
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-PC3-050D-93050-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2107.0 lumens
Efficiency: N/A
Efficacy: 99.4 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

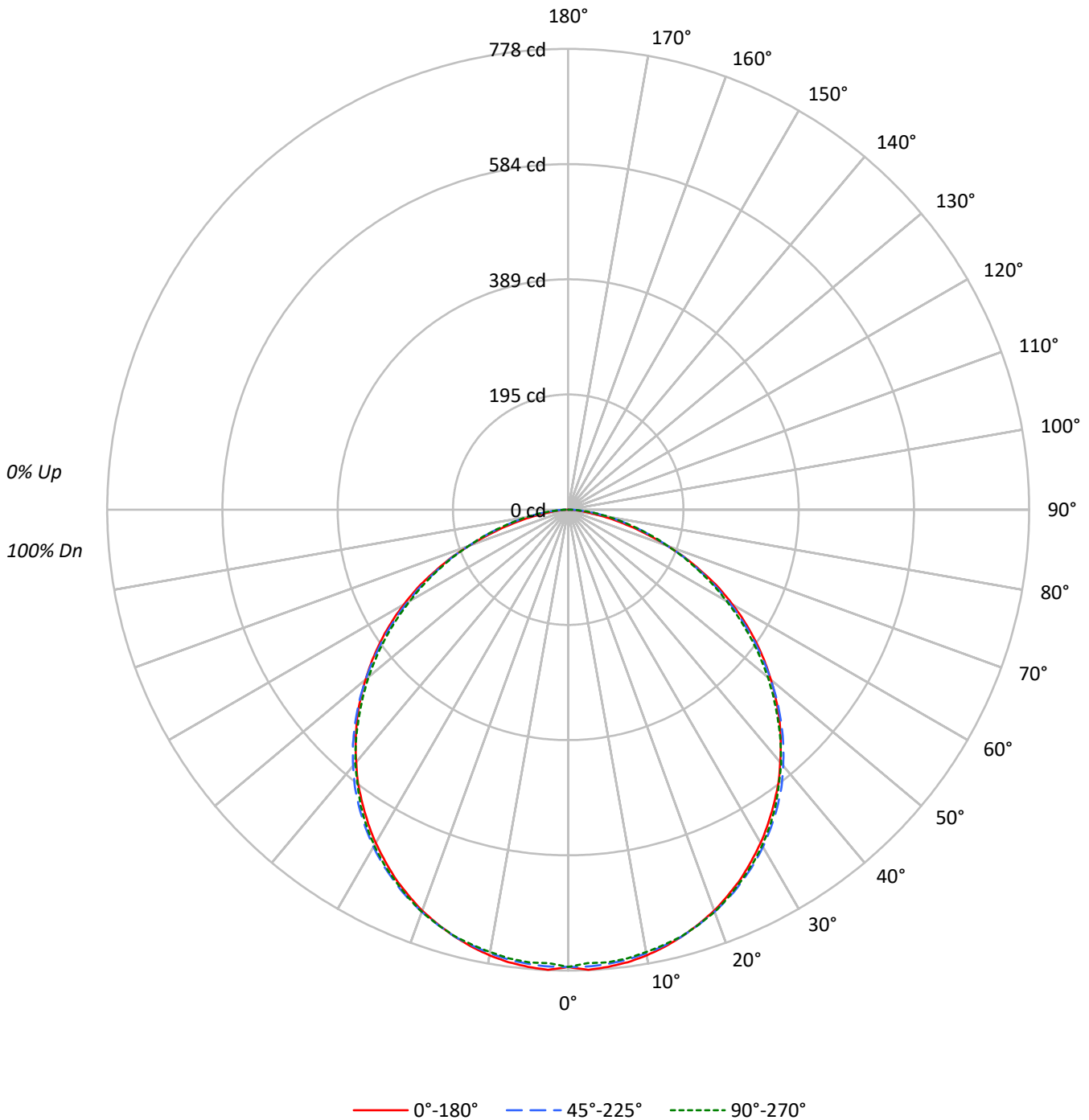
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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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°	7431	7431	7431
5°	7487	7438	7411
10°	7469	7434	7413
15°	7429	7429	7422
20°	7381	7403	7403
25°	7312	7365	7341
30°	7223	7309	7278
35°	7115	7223	7174
40°	6998	7096	7024
45°	6870	6919	6812
50°	6690	6690	6583
55°	6477	6393	6298
60°	6165	6042	5946
65°	5697	5583	5536
70°	4988	5030	5010
75°	4014	4441	4467
80°	2855	3764	3803
85°	1734	3159	3159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.5
10°-20°	209.7	10.0
20°-30°	317.6	15.1
30°-40°	380.8	18.1
40°-50°	388.3	18.4
50°-60°	338.9	16.1
60°-70°	242.6	11.5
70°-80°	124.6	5.9
80°-90°	31.2	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°	600.5	28.5
0°-40°	981.3	46.6
0°-60°	1708.5	81.1
0°-90°	2107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	775	767	770	768	767	74
15°	745	739	745	745	745	210
25°	688	683	693	691	691	317
35°	605	604	615	610	610	379
45°	505	503	508	502	500	389
55°	386	381	381	375	375	344
65°	250	244	245	243	243	248
75°	108	113	119	120	120	116
85°	16	24	29	29	29	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.9	771.9	771.9	771.9	771.9
2.5°	777.6	769.0	771.9	769.7	766.2
5°	774.7	766.9	769.7	767.6	766.9
7.5°	770.5	762.6	766.2	764.7	764.0
10°	764.0	756.2	760.4	759.0	758.3
12.5°	755.4	748.3	753.3	751.9	751.9
15°	745.4	739.0	745.4	745.4	744.7
17.5°	733.3	727.6	734.0	734.7	734.0
20°	720.4	714.0	722.6	721.9	722.6
22.5°	704.7	699.7	709.0	706.8	707.6
25°	688.3	683.3	693.3	691.1	691.1
27.5°	669.0	665.4	676.1	674.0	674.0
30°	649.7	646.1	657.5	654.7	654.7
32.5°	628.2	626.1	636.8	633.2	633.2
35°	605.4	603.9	614.6	610.4	610.4
37.5°	582.5	581.1	591.1	586.1	583.9
40°	556.8	556.0	564.6	558.9	558.9
42.5°	531.0	530.3	537.5	530.3	530.3
45°	504.6	503.2	508.2	501.7	500.3
47.5°	476.0	474.6	478.1	471.0	470.3
50°	446.7	445.3	446.7	440.3	439.5
52.5°	416.7	413.8	413.8	407.4	407.4
55°	385.9	380.9	380.9	375.2	375.2
57.5°	353.8	347.3	348.1	343.1	342.3
60°	320.2	313.0	313.8	309.5	308.8
62.5°	287.3	278.7	280.9	275.9	275.9
65°	250.1	244.4	245.1	243.0	243.0
67.5°	215.8	210.1	213.7	211.6	211.6
70°	177.2	173.7	178.7	178.7	178.0
72.5°	141.5	142.2	148.7	148.7	149.4
75°	107.9	112.9	119.4	120.1	120.1
77.5°	77.2	85.8	92.9	92.9	92.9
80°	51.5	61.5	67.9	69.3	68.6
82.5°	30.7	41.5	46.5	47.9	47.2
85°	15.7	24.3	28.6	29.3	28.6
87.5°	5.7	12.2	14.3	14.3	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)