

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: P688466

Luminaire Tested: SQ4R-PC3-050D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688466
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-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2063.1 lumens
Efficiency: N/A
Efficacy: 109.2 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

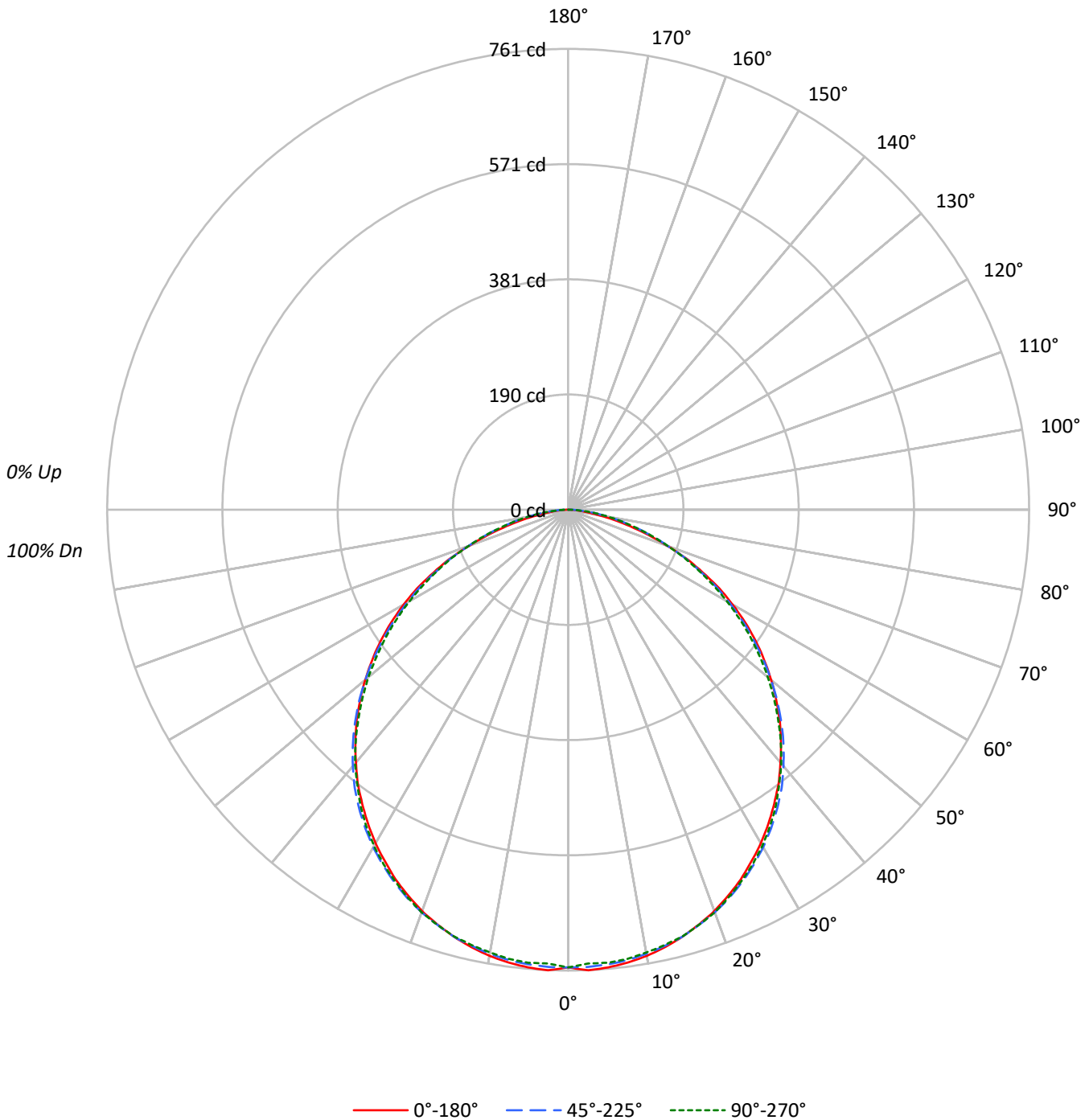
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7276	7276	7276
5°	7331	7284	7257
10°	7313	7279	7259
15°	7275	7275	7268
20°	7227	7248	7248
25°	7159	7211	7188
30°	7071	7157	7126
35°	6966	7073	7023
40°	6852	6949	6878
45°	6727	6775	6670
50°	6551	6551	6446
55°	6343	6261	6167
60°	6036	5915	5821
65°	5579	5467	5419
70°	4887	4926	4906
75°	3932	4348	4374
80°	2794	3687	3726
85°	1701	3093	3093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.5
10°-20°	205.4	10.0
20°-30°	311.0	15.1
30°-40°	372.9	18.1
40°-50°	380.2	18.4
50°-60°	331.9	16.1
60°-70°	237.6	11.5
70°-80°	122.1	5.9
80°-90°	30.5	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°	587.9	28.5
0°-40°	960.8	46.6
0°-60°	1672.9	81.1
0°-90°	2063.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	759	751	754	752	751	72
15°	730	724	730	730	729	206
25°	674	669	679	677	677	310
35°	593	591	602	598	598	371
45°	494	493	498	491	490	381
55°	378	373	373	367	367	337
65°	245	239	240	238	238	243
75°	106	111	117	118	118	114
85°	15	24	28	29	28	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.8	755.8	755.8	755.8	755.8
2.5°	761.4	753.0	755.8	753.7	750.2
5°	758.6	750.9	753.7	751.6	750.9
7.5°	754.4	746.7	750.2	748.8	748.1
10°	748.1	740.4	744.6	743.2	742.5
12.5°	739.7	732.7	737.6	736.2	736.2
15°	729.9	723.6	729.9	729.9	729.2
17.5°	718.0	712.4	718.7	719.4	718.7
20°	705.4	699.1	707.5	706.8	707.5
22.5°	690.0	685.1	694.2	692.1	692.8
25°	673.9	669.0	678.8	676.7	676.7
27.5°	655.0	651.5	662.0	659.9	659.9
30°	636.1	632.6	643.8	641.0	641.0
32.5°	615.1	613.0	623.5	620.0	620.0
35°	592.7	591.3	601.8	597.6	597.6
37.5°	570.4	569.0	578.7	573.8	571.8
40°	545.2	544.5	552.9	547.3	547.3
42.5°	520.0	519.3	526.3	519.3	519.3
45°	494.1	492.7	497.6	491.3	489.9
47.5°	466.1	464.7	468.2	461.2	460.5
50°	437.4	436.0	437.4	431.1	430.4
52.5°	408.0	405.2	405.2	398.9	398.9
55°	377.9	373.0	373.0	367.4	367.4
57.5°	346.4	340.1	340.8	335.9	335.2
60°	313.5	306.5	307.2	303.0	302.3
62.5°	281.3	272.9	275.0	270.1	270.1
65°	244.9	239.3	240.0	237.9	237.9
67.5°	211.3	205.7	209.2	207.1	207.1
70°	173.6	170.1	175.0	175.0	174.3
72.5°	138.6	139.3	145.6	145.6	146.3
75°	105.7	110.6	116.9	117.6	117.6
77.5°	75.6	84.0	91.0	91.0	91.0
80°	50.4	60.2	66.5	67.9	67.2
82.5°	30.1	40.6	45.5	46.9	46.2
85°	15.4	23.8	28.0	28.7	28.0
87.5°	5.6	11.9	14.0	14.0	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)