

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: P688464

Luminaire Tested: SQ4R-PC3-050D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688464
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-830-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1962.0 lumens
Efficiency: N/A
Efficacy: 103.8 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

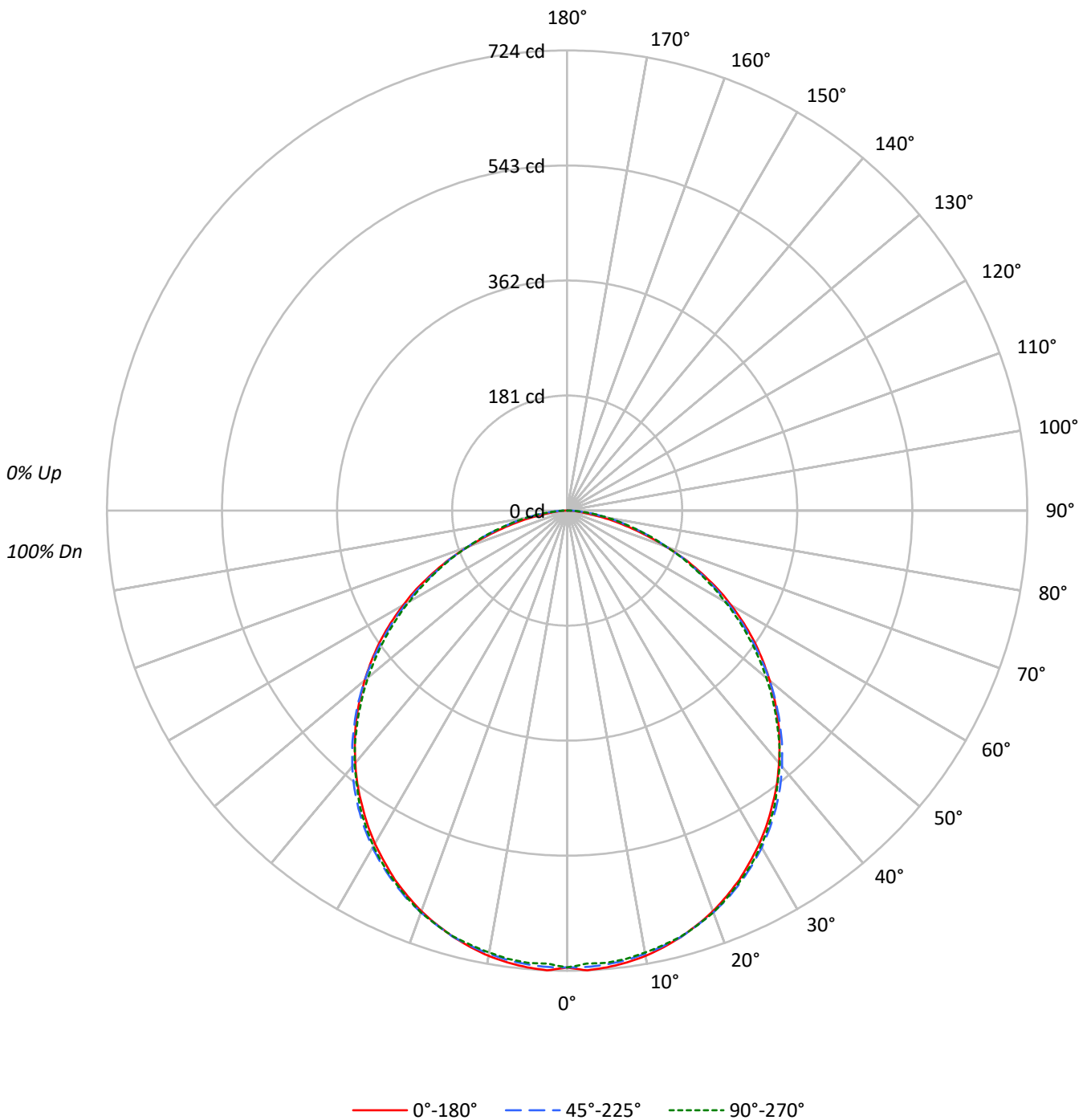
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6920	6920	6920
5°	6972	6927	6901
10°	6955	6922	6903
15°	6918	6918	6912
20°	6872	6893	6893
25°	6808	6858	6837
30°	6726	6807	6777
35°	6625	6726	6680
40°	6515	6608	6540
45°	6398	6443	6343
50°	6229	6229	6130
55°	6032	5954	5865
60°	5742	5626	5536
65°	5306	5201	5155
70°	4644	4684	4664
75°	3738	4133	4159
80°	2656	3504	3543
85°	1613	2938	2938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.5
10°-20°	195.3	10.0
20°-30°	295.8	15.1
30°-40°	354.6	18.1
40°-50°	361.6	18.4
50°-60°	315.6	16.1
60°-70°	226.0	11.5
70°-80°	116.1	5.9
80°-90°	29.0	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°	559.1	28.5
0°-40°	913.8	46.6
0°-60°	1590.9	81.1
0°-90°	1962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	721	714	717	715	714	69
15°	694	688	694	694	694	196
25°	641	636	646	644	644	295
35°	564	562	572	568	568	353
45°	470	468	473	467	466	362
55°	359	355	355	349	349	321
65°	233	228	228	226	226	231
75°	100	105	111	112	112	108
85°	15	23	27	27	27	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.8	718.8	718.8	718.8	718.8
2.5°	724.1	716.1	718.8	716.8	713.4
5°	721.4	714.1	716.8	714.8	714.1
7.5°	717.4	710.1	713.4	712.1	711.4
10°	711.4	704.1	708.1	706.8	706.1
12.5°	703.5	696.8	701.5	700.1	700.1
15°	694.1	688.1	694.1	694.1	693.5
17.5°	682.8	677.5	683.5	684.2	683.5
20°	670.8	664.9	672.8	672.2	672.8
22.5°	656.2	651.5	660.2	658.2	658.9
25°	640.9	636.2	645.6	643.6	643.6
27.5°	622.9	619.6	629.6	627.6	627.6
30°	605.0	601.6	612.3	609.6	609.6
32.5°	585.0	583.0	593.0	589.6	589.6
35°	563.7	562.4	572.3	568.4	568.4
37.5°	542.4	541.1	550.4	545.7	543.7
40°	518.4	517.8	525.8	520.4	520.4
42.5°	494.5	493.8	500.5	493.8	493.8
45°	469.9	468.5	473.2	467.2	465.9
47.5°	443.2	441.9	445.2	438.6	437.9
50°	415.9	414.6	415.9	410.0	409.3
52.5°	388.0	385.3	385.3	379.3	379.3
55°	359.4	354.7	354.7	349.4	349.4
57.5°	329.4	323.4	324.1	319.4	318.8
60°	298.2	291.5	292.2	288.2	287.5
62.5°	267.5	259.6	261.5	256.9	256.9
65°	232.9	227.6	228.3	226.3	226.3
67.5°	201.0	195.7	199.0	197.0	197.0
70°	165.0	161.7	166.4	166.4	165.7
72.5°	131.8	132.4	138.4	138.4	139.1
75°	100.5	105.2	111.1	111.8	111.8
77.5°	71.9	79.9	86.5	86.5	86.5
80°	47.9	57.2	63.2	64.6	63.9
82.5°	28.6	38.6	43.3	44.6	43.9
85°	14.6	22.6	26.6	27.3	26.6
87.5°	5.3	11.3	13.3	13.3	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)