

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: P688645

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688645
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-92765-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.1 lumens
Efficiency: N/A
Efficacy: 87.8 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

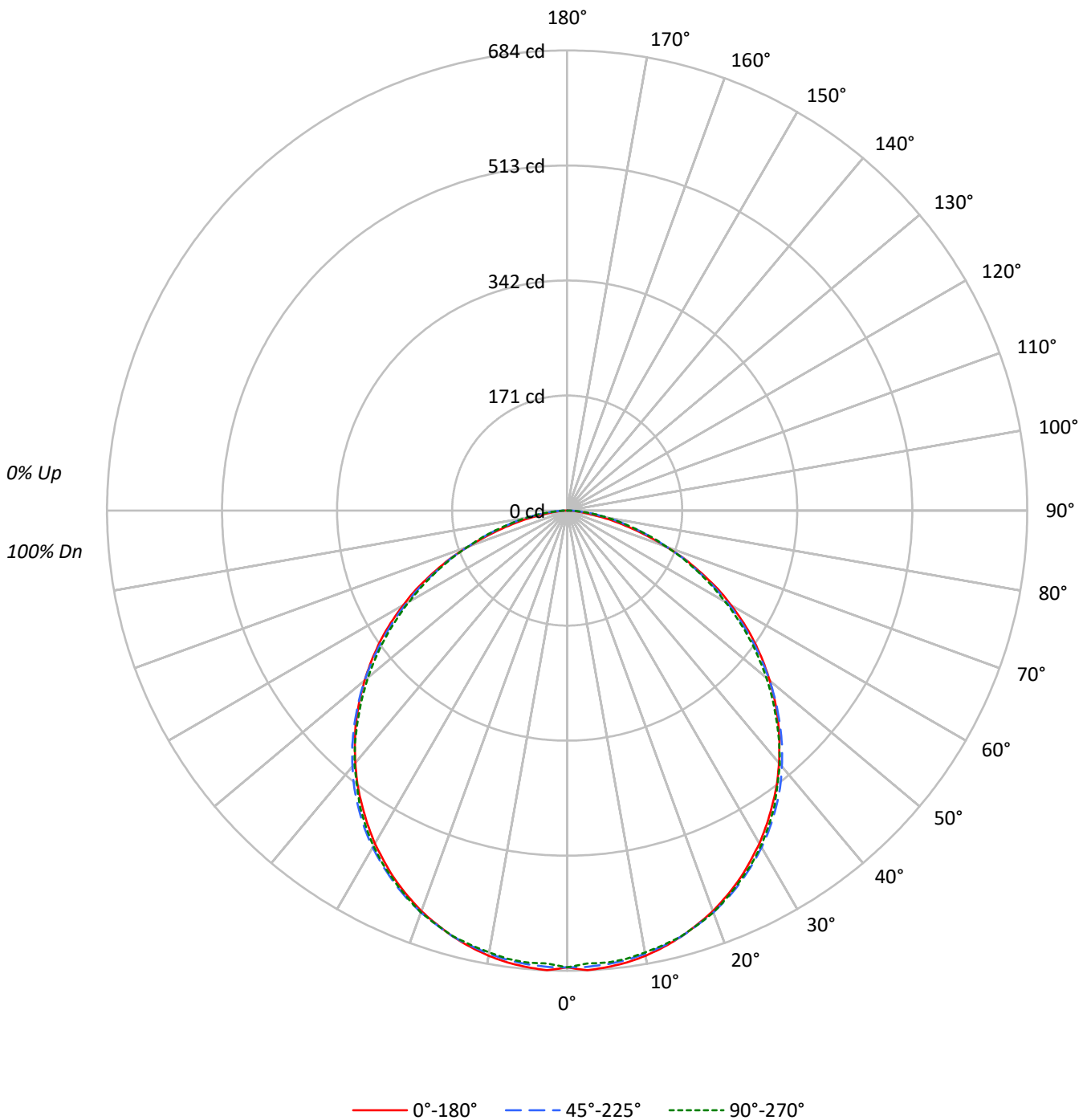
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6536	6536	6536
5°	6585	6543	6518
10°	6569	6538	6520
15°	6534	6534	6528
20°	6491	6511	6511
25°	6430	6477	6456
30°	6352	6429	6401
35°	6257	6354	6309
40°	6154	6241	6178
45°	6042	6085	5991
50°	5885	5885	5790
55°	5697	5623	5539
60°	5422	5314	5230
65°	5012	4911	4868
70°	4388	4422	4405
75°	3530	3906	3928
80°	2512	3310	3343
85°	1524	2773	2773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.5
10°-20°	184.5	10.0
20°-30°	279.4	15.1
30°-40°	334.9	18.1
40°-50°	341.5	18.4
50°-60°	298.1	16.1
60°-70°	213.4	11.5
70°-80°	109.6	5.9
80°-90°	27.4	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°	528.1	28.5
0°-40°	863.1	46.6
0°-60°	1502.6	81.1
0°-90°	1853.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	681	674	677	675	674	65
15°	656	650	656	656	655	185
25°	605	601	610	608	608	279
35°	532	531	541	537	537	333
45°	444	442	447	441	440	342
55°	339	335	335	330	330	303
65°	220	215	216	214	214	218
75°	95	99	105	106	106	102
85°	14	21	25	26	25	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.9	678.9	678.9	678.9	678.9
2.5°	683.9	676.4	678.9	677.0	673.9
5°	681.4	674.5	677.0	675.1	674.5
7.5°	677.6	670.7	673.9	672.6	672.0
10°	672.0	665.1	668.8	667.6	666.9
12.5°	664.4	658.1	662.5	661.3	661.3
15°	655.6	650.0	655.6	655.6	655.0
17.5°	644.9	639.9	645.6	646.2	645.6
20°	633.6	628.0	635.5	634.9	635.5
22.5°	619.8	615.4	623.6	621.7	622.3
25°	605.3	600.9	609.7	607.8	607.8
27.5°	588.4	585.2	594.6	592.8	592.8
30°	571.4	568.2	578.3	575.8	575.8
32.5°	552.5	550.6	560.1	556.9	556.9
35°	532.4	531.2	540.6	536.8	536.8
37.5°	512.3	511.0	519.8	515.4	513.6
40°	489.7	489.0	496.6	491.6	491.6
42.5°	467.0	466.4	472.7	466.4	466.4
45°	443.8	442.5	446.9	441.3	440.0
47.5°	418.6	417.4	420.5	414.2	413.6
50°	392.9	391.6	392.9	387.2	386.6
52.5°	366.5	364.0	364.0	358.3	358.3
55°	339.4	335.0	335.0	330.0	330.0
57.5°	311.2	305.5	306.1	301.7	301.1
60°	281.6	275.3	276.0	272.2	271.6
62.5°	252.7	245.2	247.0	242.6	242.6
65°	220.0	215.0	215.6	213.7	213.7
67.5°	189.8	184.8	187.9	186.1	186.1
70°	155.9	152.7	157.1	157.1	156.5
72.5°	124.5	125.1	130.7	130.7	131.4
75°	94.9	99.3	105.0	105.6	105.6
77.5°	67.9	75.4	81.7	81.7	81.7
80°	45.3	54.1	59.7	61.0	60.3
82.5°	27.0	36.5	40.9	42.1	41.5
85°	13.8	21.4	25.1	25.8	25.1
87.5°	5.0	10.7	12.6	12.6	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)