

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: P688884

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1955.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

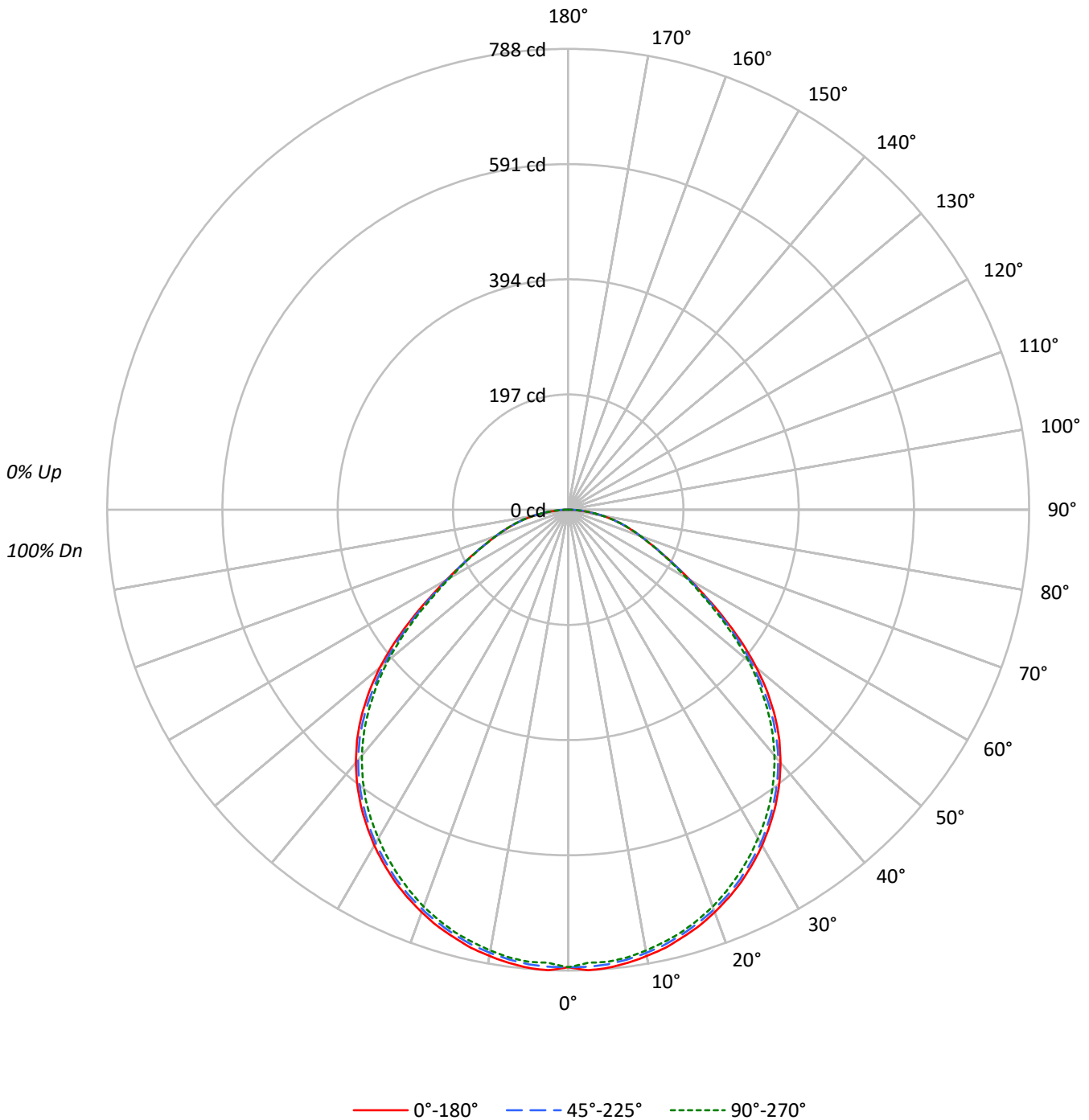
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7531	7531	7531
5°	7599	7541	7501
10°	7575	7523	7482
15°	7542	7495	7454
20°	7504	7455	7400
25°	7451	7401	7315
30°	7370	7318	7214
35°	7262	7199	7095
40°	7096	7020	6893
45°	6808	6688	6550
50°	6297	6145	6025
55°	5497	5373	5259
60°	4631	4592	4502
65°	4007	4021	3991
70°	3679	3699	3699
75°	3534	3534	3560
80°	3326	3360	3326
85°	2684	2982	2982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.8
10°-20°	211.8	10.8
20°-30°	319.4	16.3
30°-40°	380.7	19.5
40°-50°	375.5	19.2
50°-60°	286.4	14.6
60°-70°	176.8	9.0
70°-80°	100.7	5.2
80°-90°	30.4	1.6
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°	605.2	30.9
0°-40°	985.8	50.4
0°-60°	1647.8	84.3
0°-90°	1955.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	786	778	780	778	776	75
15°	757	749	752	749	748	214
25°	701	693	697	689	689	323
35°	618	610	612	604	604	386
45°	500	493	491	482	481	384
55°	328	322	320	315	313	293
65°	176	174	176	175	175	177
75°	95	95	95	96	96	100
85°	24	26	27	27	27	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.3	782.3	782.3	782.3	782.3
2.5°	788.3	779.6	782.3	780.3	775.5
5°	786.3	777.6	780.3	777.6	776.2
7.5°	781.6	772.8	775.5	772.8	772.2
10°	774.9	766.8	769.5	766.8	765.4
12.5°	767.4	758.7	762.1	758.7	757.3
15°	756.7	748.6	752.0	749.3	747.9
17.5°	745.9	737.1	740.5	737.8	735.8
20°	732.4	724.3	727.7	723.0	722.3
22.5°	717.6	709.5	712.9	706.1	706.1
25°	701.4	692.7	696.7	689.3	688.6
27.5°	682.6	674.5	677.8	670.4	669.7
30°	663.0	654.9	658.3	650.2	648.9
32.5°	640.8	633.4	636.1	628.0	627.3
35°	617.9	610.5	612.5	604.4	603.7
37.5°	592.3	585.5	586.9	578.1	577.4
40°	564.6	557.9	558.6	549.1	548.5
42.5°	534.3	527.6	526.9	517.5	516.8
45°	500.0	493.2	491.2	482.4	481.1
47.5°	462.2	455.5	451.4	444.0	443.4
50°	420.4	413.7	410.3	404.3	402.3
52.5°	375.3	368.6	365.9	360.5	358.5
55°	327.5	322.1	320.1	314.7	313.3
57.5°	281.6	277.6	276.9	271.5	270.9
60°	240.5	238.5	238.5	233.8	233.8
62.5°	205.5	204.2	205.5	202.8	202.1
65°	175.9	174.5	176.5	175.2	175.2
67.5°	150.9	150.9	152.3	151.6	151.6
70°	130.7	130.7	131.4	131.4	131.4
72.5°	112.5	111.8	113.9	113.9	113.2
75°	95.0	95.0	95.0	95.7	95.7
77.5°	77.5	77.5	78.2	78.2	77.5
80°	60.0	60.6	60.6	60.0	60.0
82.5°	42.4	43.1	43.1	43.1	42.4
85°	24.3	25.6	27.0	27.0	27.0
87.5°	8.8	11.5	13.5	13.5	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)