

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1036228

Luminaire Tested: SQ4R-PC3-050D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-050D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

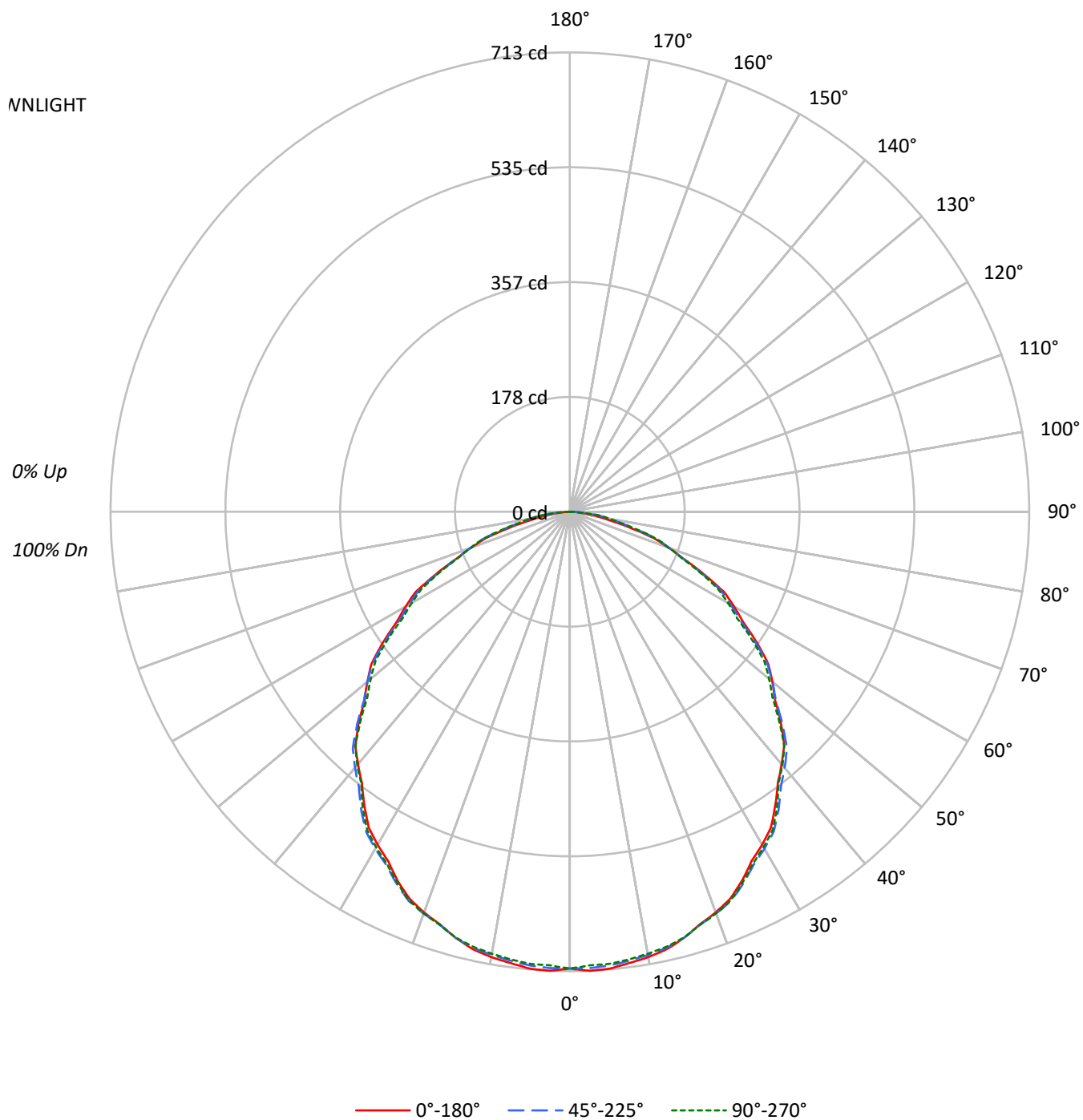
Lumens per Lamp: N/A
Luminaire Lumens: 1935.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.8
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6540	6540	6540
5°	6591	6548	6524
10°	6575	6544	6525
15°	6540	6540	6534
20°	6498	6516	6516
25°	6436	6483	6462
30°	6357	6434	6406
35°	6263	6359	6314
40°	6159	6246	6183
45°	6048	6091	5995
50°	5889	5889	5796
55°	5702	5628	5545
60°	5427	5318	5233
65°	5015	4916	4873
70°	4392	4427	4411
75°	3533	3911	3932
80°	2513	3315	3347
85°	1535	2784	2784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 6091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.5
10°-20°	192.6	10.0
20°-30°	291.6	15.1
30°-40°	349.6	18.1
40°-50°	356.5	18.4
50°-60°	311.2	16.1
60°-70°	222.8	11.5
70°-80°	114.8	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°	551.3	28.5
0°-40°	900.8	46.6
0°-60°	1568.5	81.1
0°-90°	1935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	712	704	707	705	704	68
15°	685	679	685	685	684	193
25°	632	628	637	635	635	291
35°	556	555	565	561	561	348
45°	464	462	467	461	460	357
55°	354	350	350	345	345	316
65°	230	225	225	223	223	227
75°	99	104	110	110	110	107
85°	14	22	26	27	26	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.9	708.9	708.9	708.9	708.9
2.5°	713.2	707.0	708.9	707.4	704.8
5°	711.7	704.5	707.0	705.0	704.4
7.5°	706.5	699.4	702.7	701.4	700.7
10°	701.8	694.7	698.5	697.2	696.5
12.5°	695.5	688.9	693.2	692.0	691.7
15°	684.7	679.0	684.7	684.7	684.1
17.5°	671.2	665.9	672.1	672.5	672.1
20°	661.8	656.0	663.7	663.0	663.7
22.5°	650.2	645.5	653.7	652.0	652.7
25°	632.2	627.7	636.8	634.8	634.8
27.5°	611.0	607.7	617.6	615.5	615.5
30°	596.7	593.5	603.9	601.3	601.3
32.5°	581.0	578.8	588.8	585.6	585.6
35°	556.1	554.7	564.6	560.6	560.6
37.5°	530.3	529.1	538.1	533.3	531.7
40°	511.4	510.8	518.6	513.4	513.4
42.5°	492.5	491.8	498.7	492.4	492.4
45°	463.5	462.1	466.8	460.8	459.5
47.5°	431.8	430.6	433.4	427.0	426.3
50°	410.3	409.0	410.3	404.3	403.8
52.5°	388.3	385.9	386.1	380.2	380.1
55°	354.5	350.0	349.9	344.7	344.7
57.5°	318.8	312.9	313.5	308.9	308.2
60°	294.1	287.7	288.2	284.3	283.6
62.5°	269.9	262.5	264.0	259.6	259.5
65°	229.7	224.6	225.2	223.2	223.2
67.5°	191.1	186.4	189.9	188.3	188.2
70°	162.8	159.6	164.1	164.1	163.5
72.5°	136.6	136.5	142.0	142.0	142.5
75°	99.1	103.7	109.7	110.3	110.3
77.5°	66.2	74.1	80.8	81.0	80.9
80°	47.3	56.2	62.4	63.7	63.0
82.5°	32.0	41.5	46.6	47.9	47.3
85°	14.5	22.2	26.3	26.9	26.3
87.5°	4.2	8.8	10.5	10.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.99	19.61	18.36	19.92	20.24	17.88	19.49	18.24	19.81	20.12
	3H	19.54	20.99	19.91	21.32	21.68	19.48	20.94	19.86	21.26	21.62
	4H	20.05	21.42	20.44	21.76	22.14	20.08	21.45	20.48	21.80	22.17
	6H	20.28	21.55	20.69	21.92	22.31	20.44	21.71	20.86	22.08	22.47
	8H	20.35	21.56	20.77	21.95	22.35	20.58	21.79	21.01	22.18	22.58
	12H	20.37	21.53	20.80	21.91	22.34	20.67	21.83	21.10	22.21	22.64
4H	2H	18.59	19.96	18.99	20.31	20.68	18.50	19.87	18.89	20.21	20.59
	3H	20.34	21.49	20.75	21.89	22.29	20.32	21.46	20.73	21.86	22.26
	4H	20.95	21.99	21.38	22.40	22.84	21.02	22.05	21.45	22.47	22.90
	6H	21.29	22.19	21.75	22.63	23.09	21.50	22.40	21.95	22.84	23.30
	8H	21.39	22.24	21.85	22.68	23.14	21.68	22.53	22.14	22.97	23.43
	12H	21.44	22.20	21.92	22.68	23.15	21.81	22.57	22.29	23.04	23.51
8H	4H	21.21	22.05	21.67	22.49	22.96	21.27	22.11	21.73	22.55	23.02
	6H	21.65	22.35	22.15	22.84	23.31	21.86	22.56	22.35	23.05	23.52
	8H	21.82	22.44	22.33	22.95	23.44	22.12	22.75	22.63	23.25	23.74
	12H	21.92	22.48	22.43	22.97	23.53	22.31	22.87	22.82	23.36	23.92
12H	4H	21.23	21.99	21.71	22.46	22.93	21.28	22.04	21.77	22.52	22.99
	6H	21.70	22.33	22.21	22.83	23.32	21.90	22.52	22.41	23.03	23.52
	8H	21.92	22.48	22.43	22.97	23.53	22.21	22.77	22.72	23.26	23.82