

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: P1036267

Luminaire Tested: SQ4R-PP3-050D-B50-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

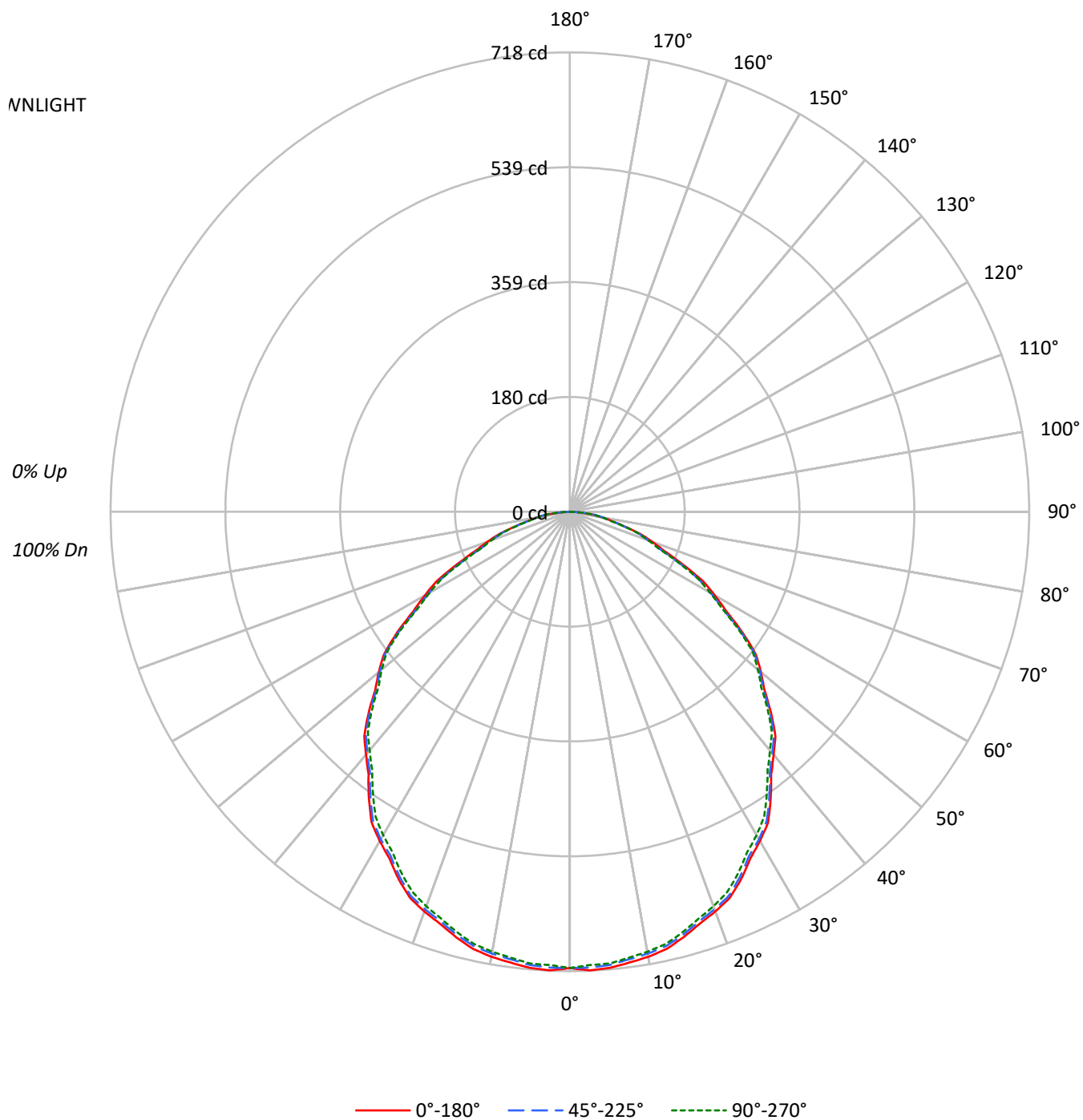
Lumens per Lamp: N/A
Luminaire Lumens: 1825.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6579	6579	6579
5°	6627	6587	6564
10°	6616	6570	6540
15°	6573	6536	6500
20°	6528	6492	6443
25°	6451	6407	6343
30°	6331	6298	6218
35°	6167	6124	6046
40°	5968	5930	5863
45°	5806	5765	5708
50°	5596	5562	5507
55°	5308	5237	5197
60°	4831	4694	4670
65°	4259	4080	4065
70°	3674	3523	3523
75°	3165	3119	3073
80°	2789	2821	2752
85°	2181	2392	2392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.7
10°-20°	192.5	10.5
20°-30°	288.4	15.8
30°-40°	338.2	18.5
40°-50°	339.3	18.6
50°-60°	289.5	15.9
60°-70°	188.8	10.3
70°-80°	94.7	5.2
80°-90°	26.2	1.4
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°	548.3	30.0
0°-40°	886.6	48.6
0°-60°	1515.3	83.0
0°-90°	1825.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1825.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	716	709	711	709	709	68
15°	688	681	684	682	680	194
25°	634	626	629	624	623	291
35°	548	542	544	537	537	342
45°	445	442	442	438	438	343
55°	330	329	326	324	323	293
65°	195	191	187	186	186	195
75°	89	89	88	87	86	96
85°	21	22	23	23	23	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.1	713.1	713.1	713.1	713.1
2.5°	717.5	711.7	713.1	712.0	709.1
5°	715.5	708.9	711.2	708.7	708.7
7.5°	710.7	703.4	705.6	703.2	703.1
10°	706.2	698.9	701.3	698.7	698.1
12.5°	699.7	692.4	695.2	692.2	692.1
15°	688.1	681.3	684.3	681.7	680.5
17.5°	675.0	667.7	671.2	667.8	667.2
20°	664.9	657.6	661.2	656.2	656.2
22.5°	653.0	645.7	649.8	643.2	643.2
25°	633.7	626.3	629.4	623.7	623.1
27.5°	610.8	603.6	606.7	600.3	600.2
30°	594.3	587.6	591.2	584.4	583.7
32.5°	576.4	570.1	572.7	565.8	565.1
35°	547.5	542.0	543.7	537.4	536.8
37.5°	517.0	511.5	513.4	508.0	507.8
40°	495.5	491.9	492.4	488.0	486.8
42.5°	475.6	471.4	471.9	467.5	467.3
45°	445.0	441.8	441.8	437.5	437.5
47.5°	412.5	410.1	409.5	405.8	405.7
50°	389.9	388.1	387.5	384.3	383.7
52.5°	366.4	365.6	363.5	360.8	360.7
55°	330.0	328.7	325.6	323.7	323.1
57.5°	290.4	287.9	284.4	281.7	282.1
60°	261.8	259.3	254.4	253.1	253.1
62.5°	234.4	231.4	226.4	224.7	225.6
65°	195.1	191.4	186.9	185.6	186.2
67.5°	159.3	155.9	151.1	151.1	150.6
70°	136.2	134.3	130.6	130.6	130.6
72.5°	115.8	114.8	112.1	112.1	111.7
75°	88.8	88.8	87.5	86.8	86.2
77.5°	66.5	66.7	66.2	65.5	64.4
80°	52.5	53.8	53.1	52.5	51.8
82.5°	39.5	40.7	40.7	39.5	39.3
85°	20.6	22.4	22.6	22.6	22.6
87.5°	5.5	7.4	8.0	8.0	8.5
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	17.63	19.22	18.00	19.53	19.85	17.47	19.06	17.83	19.37	19.68
	3H	18.94	20.37	19.32	20.70	21.06	18.74	20.17	19.12	20.50	20.86
	4H	19.43	20.77	19.83	21.12	21.50	19.23	20.57	19.63	20.92	21.29
	6H	19.75	20.99	20.16	21.35	21.74	19.55	20.79	19.96	21.15	21.55
	8H	19.87	21.05	20.30	21.44	21.84	19.68	20.86	20.10	21.25	21.65
	12H	19.94	21.07	20.37	21.46	21.88	19.76	20.89	20.19	21.28	21.70
4H	2H	18.10	19.44	18.50	19.79	20.17	17.97	19.31	18.36	19.66	20.03
	3H	19.64	20.75	20.05	21.15	21.55	19.47	20.58	19.88	20.98	21.38
	4H	20.23	21.24	20.66	21.65	22.09	20.06	21.07	20.49	21.48	21.92
	6H	20.67	21.54	21.12	21.99	22.44	20.50	21.37	20.95	21.82	22.27
	8H	20.84	21.66	21.30	22.10	22.57	20.67	21.49	21.14	21.94	22.40
	12H	20.95	21.69	21.43	22.16	22.63	20.80	21.54	21.28	22.01	22.48
8H	4H	20.44	21.26	20.90	21.70	22.17	20.28	21.10	20.74	21.54	22.01
	6H	20.99	21.67	21.48	22.16	22.63	20.83	21.51	21.33	22.00	22.48
	8H	21.24	21.85	21.75	22.36	22.84	21.09	21.70	21.60	22.20	22.69
	12H	21.41	21.96	21.92	22.45	23.01	21.28	21.82	21.79	22.31	22.88
12H	4H	20.45	21.19	20.93	21.66	22.13	20.30	21.04	20.78	21.51	21.98
	6H	21.03	21.64	21.54	22.15	22.63	20.88	21.49	21.39	22.00	22.48
	8H	21.33	21.87	21.84	22.36	22.93	21.19	21.73	21.69	22.22	22.78