

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: P1036261

Luminaire Tested: SQ4R-PP3-050D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036261
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-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

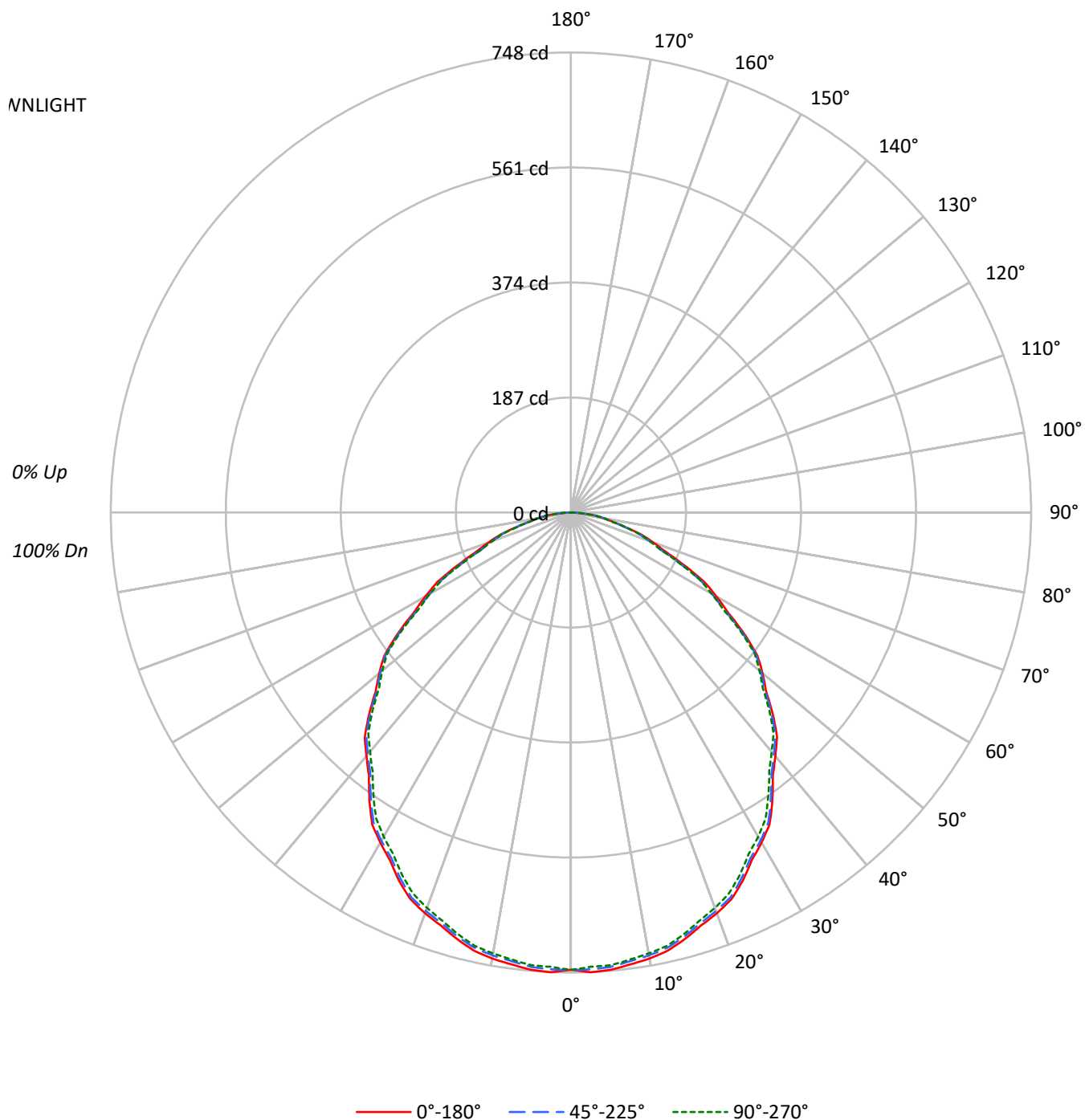
Lumens per Lamp: N/A
Luminaire Lumens: 1903.2 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6861	6861	6861
5°	6911	6868	6844
10°	6900	6851	6820
15°	6854	6816	6779
20°	6808	6770	6719
25°	6727	6681	6615
30°	6603	6568	6485
35°	6431	6386	6305
40°	6224	6185	6114
45°	6054	6012	5952
50°	5838	5800	5743
55°	5535	5461	5421
60°	5038	4895	4871
65°	4440	4255	4240
70°	3833	3674	3674
75°	3301	3251	3201
80°	2906	2943	2869
85°	2265	2488	2488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.7
10°-20°	200.8	10.5
20°-30°	300.7	15.8
30°-40°	352.7	18.5
40°-50°	353.8	18.6
50°-60°	301.9	15.9
60°-70°	196.9	10.3
70°-80°	98.8	5.2
80°-90°	27.3	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°	571.8	30.0
0°-40°	924.6	48.6
0°-60°	1580.3	83.0
0°-90°	1903.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	746	739	742	739	739	71
15°	718	710	714	711	710	202
25°	661	653	656	650	650	304
35°	571	565	567	560	560	357
45°	464	461	461	456	456	357
55°	344	343	340	338	337	306
65°	203	200	195	194	194	203
75°	93	93	91	90	90	100
85°	21	23	24	24	24	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.6	743.6	743.6	743.6	743.6
2.5°	748.3	742.2	743.6	742.5	739.4
5°	746.2	739.2	741.6	739.0	739.0
7.5°	741.1	733.5	735.9	733.3	733.2
10°	736.5	728.8	731.3	728.6	728.0
12.5°	729.7	722.1	724.9	721.9	721.8
15°	717.6	710.5	713.6	711.0	709.7
17.5°	703.9	696.3	699.9	696.4	695.8
20°	693.4	685.7	689.5	684.3	684.3
22.5°	681.0	673.3	677.6	670.7	670.7
25°	660.8	653.2	656.3	650.4	649.8
27.5°	637.0	629.4	632.7	626.0	625.9
30°	619.8	612.8	616.5	609.4	608.7
32.5°	601.0	594.5	597.3	590.0	589.3
35°	571.0	565.2	567.0	560.4	559.8
37.5°	539.2	533.4	535.4	529.8	529.6
40°	516.8	513.0	513.5	508.9	507.6
42.5°	496.0	491.6	492.1	487.6	487.4
45°	464.0	460.8	460.8	456.2	456.2
47.5°	430.2	427.7	427.0	423.1	423.0
50°	406.7	404.8	404.1	400.8	400.1
52.5°	382.1	381.2	379.1	376.3	376.2
55°	344.1	342.8	339.5	337.6	337.0
57.5°	302.8	300.2	296.6	293.8	294.2
60°	273.0	270.4	265.3	264.0	264.0
62.5°	244.4	241.4	236.1	234.3	235.3
65°	203.4	199.6	194.9	193.6	194.2
67.5°	166.1	162.6	157.6	157.6	157.1
70°	142.1	140.1	136.2	136.2	136.2
72.5°	120.7	119.7	117.0	116.9	116.5
75°	92.6	92.6	91.2	90.5	89.8
77.5°	69.3	69.6	69.0	68.3	67.1
80°	54.7	56.1	55.4	54.7	54.0
82.5°	41.2	42.5	42.4	41.2	41.0
85°	21.4	23.3	23.5	23.5	23.5
87.5°	5.8	7.7	8.3	8.3	8.8
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	17.78	19.36	18.14	19.68	19.99	17.62	19.20	17.98	19.52	19.83
	3H	19.09	20.52	19.47	20.84	21.21	18.89	20.32	19.27	20.64	21.01
	4H	19.58	20.92	19.97	21.26	21.64	19.37	20.72	19.77	21.06	21.44
	6H	19.89	21.13	20.30	21.50	21.89	19.69	20.94	20.11	21.30	21.69
	8H	20.02	21.20	20.44	21.59	21.99	19.82	21.01	20.25	21.40	21.80
	12H	20.09	21.22	20.52	21.60	22.03	19.91	21.04	20.34	21.42	21.85
4H	2H	18.24	19.59	18.64	19.93	20.31	18.11	19.45	18.51	19.80	20.18
	3H	19.78	20.90	20.19	21.30	21.70	19.61	20.73	20.02	21.13	21.53
	4H	20.38	21.38	20.81	21.80	22.23	20.21	21.21	20.64	21.63	22.06
	6H	20.81	21.69	21.27	22.13	22.59	20.64	21.52	21.10	21.96	22.42
	8H	20.99	21.81	21.45	22.25	22.71	20.82	21.64	21.28	22.08	22.55
	12H	21.10	21.83	21.58	22.31	22.78	20.95	21.68	21.43	22.16	22.63
8H	4H	20.58	21.40	21.04	21.84	22.31	20.43	21.25	20.89	21.69	22.16
	6H	21.13	21.81	21.63	22.30	22.78	20.98	21.66	21.47	22.15	22.62
	8H	21.38	21.99	21.89	22.50	22.99	21.23	21.84	21.74	22.35	22.84
	12H	21.56	22.10	22.07	22.59	23.15	21.43	21.97	21.93	22.46	23.02
12H	4H	20.60	21.33	21.08	21.81	22.28	20.45	21.18	20.93	21.66	22.13
	6H	21.17	21.78	21.68	22.29	22.78	21.02	21.63	21.53	22.14	22.63
	8H	21.48	22.02	21.99	22.51	23.07	21.33	21.87	21.84	22.36	22.93