

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: P1036266

Luminaire Tested: SQ4R-PP3-050D-B40-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036266
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

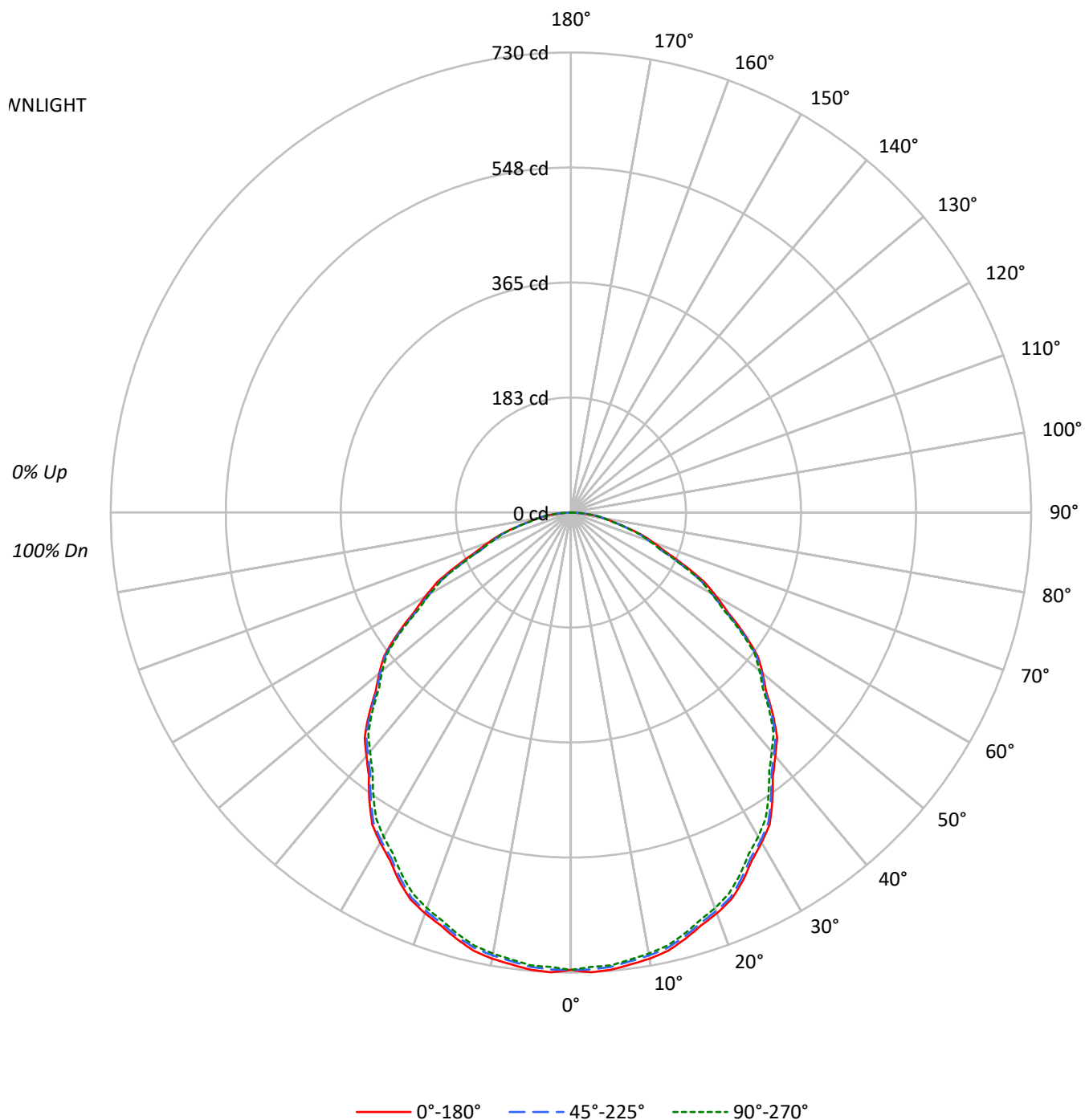
Lumens per Lamp: N/A
Luminaire Lumens: 1857.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6696	6696	6696
5°	6745	6704	6681
10°	6735	6687	6657
15°	6690	6654	6616
20°	6645	6608	6559
25°	6566	6521	6457
30°	6445	6411	6329
35°	6277	6233	6155
40°	6075	6036	5968
45°	5909	5868	5810
50°	5697	5661	5605
55°	5403	5331	5290
60°	4918	4777	4755
65°	4336	4152	4137
70°	3742	3588	3588
75°	3223	3176	3126
80°	2837	2874	2800
85°	2212	2435	2435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.7
10°-20°	196.0	10.5
20°-30°	293.5	15.8
30°-40°	344.3	18.5
40°-50°	345.4	18.6
50°-60°	294.6	15.9
60°-70°	192.2	10.3
70°-80°	96.4	5.2
80°-90°	26.7	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°	558.1	30.0
0°-40°	902.4	48.6
0°-60°	1542.4	83.0
0°-90°	1857.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	722	724	721	721	69
15°	700	694	697	694	693	198
25°	645	638	641	635	634	297
35°	557	552	553	547	546	348
45°	453	450	450	445	445	349
55°	336	335	331	330	329	298
65°	199	195	190	189	190	198
75°	90	90	89	88	88	98
85°	21	23	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°	725.8	725.8	725.8	725.8	725.8
2.5°	730.4	724.5	725.8	724.8	721.8
5°	728.3	721.6	723.9	721.4	721.4
7.5°	723.4	715.9	718.3	715.7	715.7
10°	718.9	711.4	713.8	711.2	710.6
12.5°	712.3	704.8	707.6	704.6	704.5
15°	700.4	693.5	696.6	693.9	692.7
17.5°	687.1	679.6	683.2	679.7	679.1
20°	676.8	669.3	673.0	668.0	668.0
22.5°	664.7	657.2	661.4	654.7	654.7
25°	645.0	637.5	640.6	634.8	634.3
27.5°	621.8	614.4	617.6	611.0	610.9
30°	605.0	598.1	601.8	594.8	594.1
32.5°	586.7	580.3	583.0	575.9	575.2
35°	557.3	551.7	553.4	547.0	546.5
37.5°	526.3	520.7	522.6	517.1	516.9
40°	504.4	500.7	501.2	496.7	495.5
42.5°	484.1	479.9	480.4	475.9	475.7
45°	452.9	449.7	449.7	445.3	445.3
47.5°	419.9	417.5	416.8	413.0	412.9
50°	396.9	395.1	394.4	391.2	390.5
52.5°	373.0	372.1	370.0	367.3	367.2
55°	335.9	334.6	331.4	329.5	328.9
57.5°	295.6	293.0	289.5	286.7	287.1
60°	266.5	264.0	258.9	257.7	257.7
62.5°	238.6	235.6	230.4	228.7	229.7
65°	198.6	194.8	190.2	189.0	189.5
67.5°	162.1	158.7	153.8	153.8	153.3
70°	138.7	136.7	133.0	133.0	133.0
72.5°	117.8	116.9	114.2	114.1	113.7
75°	90.4	90.4	89.1	88.4	87.7
77.5°	67.6	67.9	67.3	66.7	65.5
80°	53.4	54.8	54.1	53.4	52.7
82.5°	40.2	41.5	41.4	40.2	40.0
85°	20.9	22.8	23.0	23.0	23.0
87.5°	5.6	7.6	8.1	8.1	8.6
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	17.69	19.28	18.06	19.59	19.91	17.53	19.12	17.89	19.43	19.74
	3H	19.01	20.43	19.38	20.76	21.12	18.80	20.23	19.18	20.56	20.92
	4H	19.49	20.83	19.89	21.18	21.56	19.29	20.63	19.69	20.98	21.36
	6H	19.81	21.05	20.22	21.41	21.80	19.61	20.85	20.02	21.22	21.61
	8H	19.93	21.11	20.36	21.50	21.90	19.74	20.92	20.16	21.31	21.71
	12H	20.00	21.13	20.43	21.52	21.94	19.82	20.96	20.25	21.34	21.77
4H	2H	18.16	19.50	18.56	19.85	20.23	18.03	19.37	18.43	19.72	20.09
	3H	19.70	20.81	20.11	21.21	21.61	19.53	20.64	19.94	21.04	21.44
	4H	20.29	21.30	20.72	21.71	22.15	20.12	21.13	20.55	21.54	21.98
	6H	20.73	21.60	21.18	22.05	22.50	20.56	21.44	21.01	21.88	22.33
	8H	20.90	21.72	21.36	22.16	22.63	20.74	21.56	21.20	22.00	22.47
	12H	21.01	21.75	21.49	22.22	22.69	20.86	21.60	21.34	22.07	22.54
8H	4H	20.50	21.32	20.96	21.76	22.23	20.34	21.16	20.80	21.61	22.07
	6H	21.05	21.73	21.54	22.22	22.69	20.89	21.57	21.39	22.06	22.54
	8H	21.30	21.91	21.81	22.42	22.90	21.15	21.76	21.66	22.27	22.75
	12H	21.48	22.02	21.98	22.51	23.07	21.34	21.88	21.85	22.37	22.94
12H	4H	20.51	21.25	20.99	21.73	22.20	20.36	21.10	20.84	21.57	22.04
	6H	21.09	21.70	21.60	22.21	22.69	20.94	21.55	21.45	22.06	22.55
	8H	21.39	21.94	21.90	22.43	22.99	21.25	21.79	21.76	22.28	22.84