

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: P1036233

Luminaire Tested: SQ4R-PC3-050D-B35-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036233
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

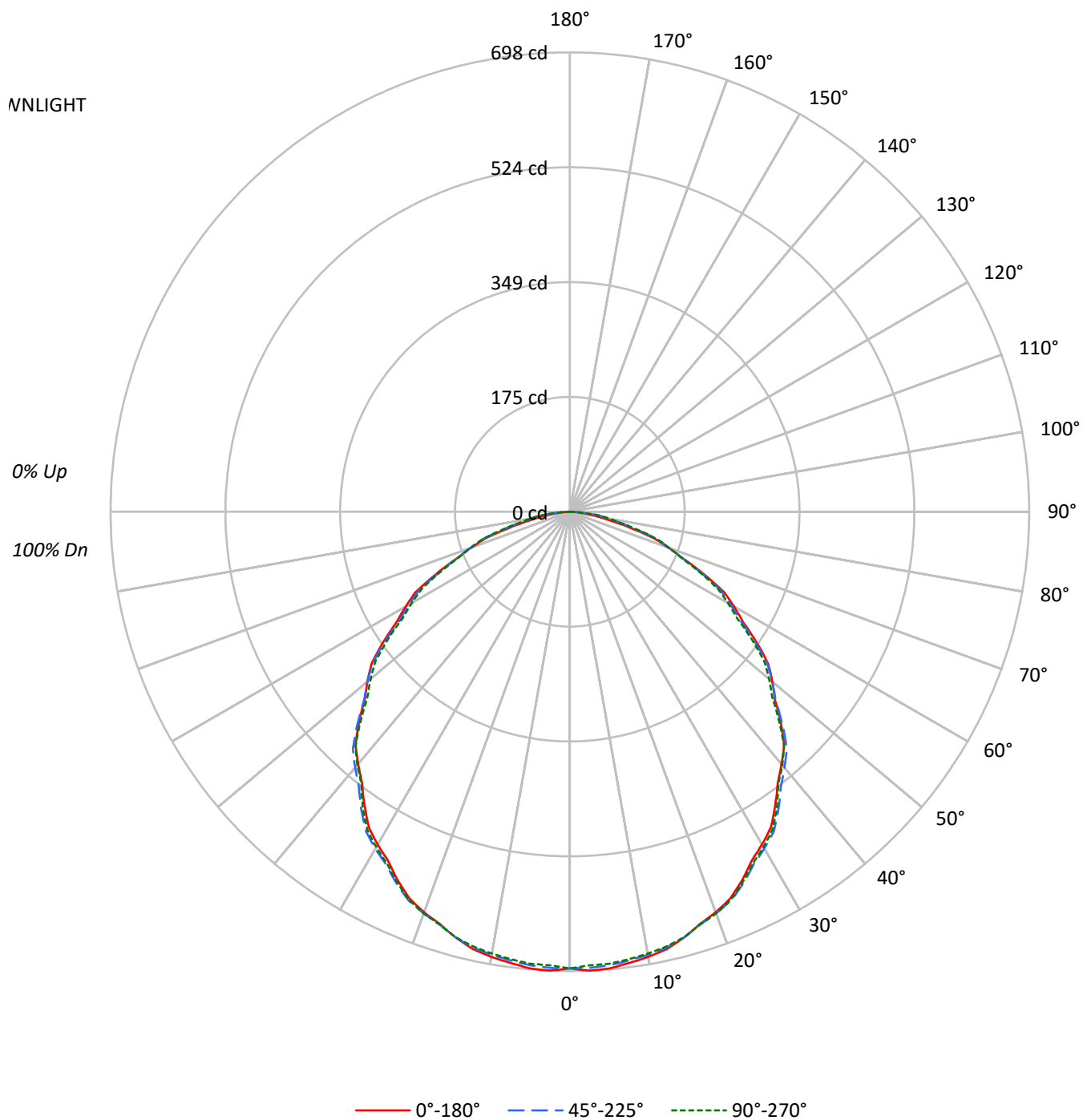
Lumens per Lamp: N/A
Luminaire Lumens: 1893.5 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6400	6400	6400
5°	6450	6407	6384
10°	6434	6403	6386
15°	6400	6400	6394
20°	6358	6377	6377
25°	6297	6344	6324
30°	6221	6296	6269
35°	6129	6223	6179
40°	6027	6112	6051
45°	5918	5960	5868
50°	5763	5763	5671
55°	5580	5508	5426
60°	5311	5204	5121
65°	4908	4812	4768
70°	4297	4332	4316
75°	3458	3825	3846
80°	2460	3246	3273
85°	1503	2721	2721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5960 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.5
10°-20°	188.4	10.0
20°-30°	285.4	15.1
30°-40°	342.1	18.1
40°-50°	348.8	18.4
50°-60°	304.5	16.1
60°-70°	218.0	11.5
70°-80°	112.3	5.9
80°-90°	28.4	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°	539.4	28.5
0°-40°	881.5	46.6
0°-60°	1534.9	81.1
0°-90°	1893.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	696	689	692	690	689	66
15°	670	664	670	670	669	189
25°	619	614	623	621	621	285
35°	544	543	552	549	549	340
45°	454	452	457	451	450	349
55°	347	342	342	337	337	309
65°	225	220	220	218	218	222
75°	97	102	107	108	108	105
85°	14	22	26	26	26	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.7	693.7	693.7	693.7	693.7
2.5°	697.9	691.8	693.7	692.2	689.7
5°	696.4	689.4	691.8	689.9	689.3
7.5°	691.4	684.4	687.6	686.4	685.7
10°	686.8	679.8	683.5	682.3	681.6
12.5°	680.6	674.1	678.3	677.2	676.9
15°	670.0	664.4	670.0	670.0	669.4
17.5°	656.8	651.6	657.7	658.1	657.7
20°	647.6	641.9	649.5	648.8	649.5
22.5°	636.3	631.7	639.7	638.0	638.7
25°	618.6	614.2	623.2	621.2	621.2
27.5°	597.9	594.7	604.4	602.3	602.3
30°	583.9	580.8	591.0	588.4	588.4
32.5°	568.5	566.4	576.2	573.0	573.0
35°	544.2	542.8	552.5	548.6	548.6
37.5°	518.9	517.8	526.6	521.9	520.3
40°	500.4	499.9	507.5	502.4	502.4
42.5°	481.9	481.3	488.0	481.8	481.8
45°	453.6	452.2	456.8	450.9	449.7
47.5°	422.5	421.4	424.1	417.8	417.2
50°	401.5	400.2	401.5	395.6	395.1
52.5°	380.0	377.6	377.8	372.1	372.0
55°	346.9	342.5	342.4	337.3	337.3
57.5°	312.0	306.2	306.8	302.3	301.6
60°	287.8	281.5	282.0	278.2	277.5
62.5°	264.1	256.9	258.3	254.0	253.9
65°	224.8	219.8	220.4	218.4	218.4
67.5°	187.0	182.4	185.8	184.3	184.2
70°	159.3	156.2	160.6	160.6	160.0
72.5°	133.7	133.6	139.0	139.0	139.4
75°	97.0	101.5	107.3	107.9	107.9
77.5°	64.8	72.5	79.1	79.3	79.2
80°	46.3	55.0	61.1	62.3	61.6
82.5°	31.3	40.6	45.6	46.9	46.3
85°	14.2	21.7	25.7	26.3	25.7
87.5°	4.1	8.6	10.3	10.3	9.3
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	17.92	19.53	18.28	19.85	20.16	17.80	19.42	18.17	19.73	20.05
	3H	19.46	20.92	19.84	21.24	21.61	19.40	20.86	19.78	21.19	21.55
	4H	19.97	21.34	20.37	21.69	22.07	20.00	21.37	20.40	21.72	22.10
	6H	20.21	21.48	20.62	21.84	22.23	20.37	21.64	20.78	22.00	22.39
	8H	20.27	21.48	20.70	21.87	22.27	20.51	21.72	20.93	22.11	22.51
	12H	20.30	21.46	20.73	21.84	22.27	20.59	21.75	21.02	22.14	22.56
4H	2H	18.51	19.88	18.91	20.23	20.61	18.42	19.79	18.82	20.14	20.51
	3H	20.27	21.41	20.68	21.81	22.21	20.24	21.39	20.65	21.79	22.19
	4H	20.88	21.91	21.31	22.32	22.76	20.95	21.98	21.38	22.39	22.83
	6H	21.22	22.12	21.67	22.56	23.02	21.42	22.32	21.88	22.77	23.22
	8H	21.32	22.16	21.78	22.60	23.07	21.61	22.45	22.07	22.89	23.36
	12H	21.37	22.13	21.85	22.60	23.07	21.74	22.49	22.22	22.97	23.44
8H	4H	21.13	21.98	21.59	22.42	22.88	21.19	22.04	21.66	22.48	22.94
	6H	21.58	22.28	22.07	22.76	23.24	21.78	22.48	22.28	22.97	23.45
	8H	21.74	22.37	22.25	22.88	23.36	22.04	22.67	22.55	23.18	23.66
	12H	21.85	22.40	22.35	22.89	23.45	22.24	22.79	22.75	23.28	23.85
12H	4H	21.16	21.91	21.64	22.39	22.86	21.21	21.97	21.69	22.44	22.91
	6H	21.62	22.25	22.13	22.76	23.25	21.82	22.45	22.33	22.96	23.44
	8H	21.85	22.40	22.35	22.89	23.45	22.14	22.69	22.64	23.18	23.74