

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: P1036229

Luminaire Tested: SQ4R-PC3-050D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036229
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_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

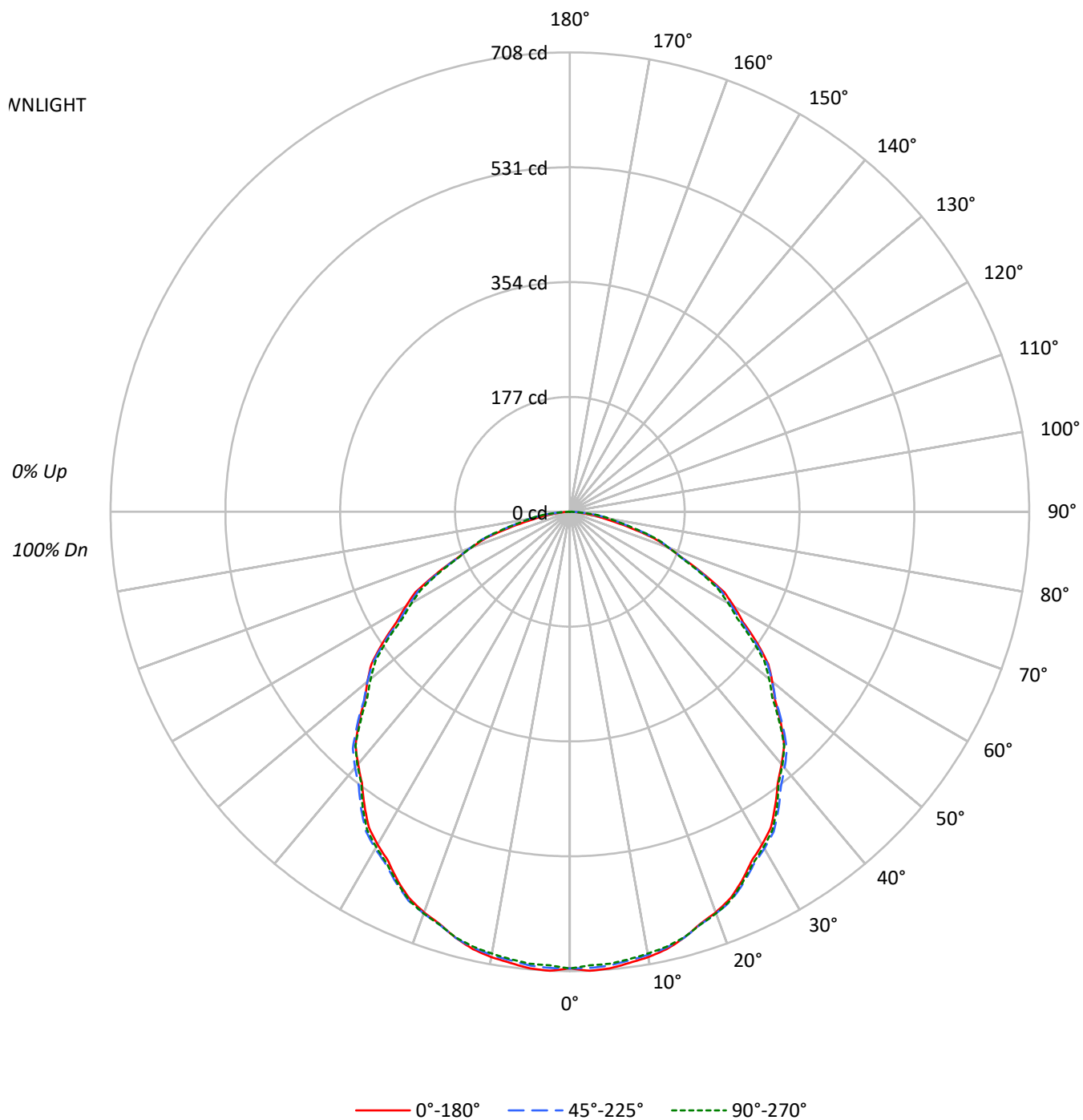
Lumens per Lamp: N/A
Luminaire Lumens: 1921.1 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6493	6493	6493
5°	6544	6501	6477
10°	6528	6497	6478
15°	6493	6493	6487
20°	6451	6469	6469
25°	6390	6436	6415
30°	6311	6388	6360
35°	6218	6313	6269
40°	6115	6201	6139
45°	6005	6046	5952
50°	5846	5846	5754
55°	5662	5588	5504
60°	5388	5279	5196
65°	4977	4881	4838
70°	4359	4394	4378
75°	3508	3882	3903
80°	2497	3294	3321
85°	1524	2763	2763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 6046 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.5
10°-20°	191.2	10.0
20°-30°	289.5	15.1
30°-40°	347.1	18.1
40°-50°	353.9	18.4
50°-60°	308.9	16.1
60°-70°	221.2	11.5
70°-80°	113.9	5.9
80°-90°	28.8	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°	547.3	28.5
0°-40°	894.4	46.6
0°-60°	1557.2	81.1
0°-90°	1921.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	707	699	702	700	699	67
15°	680	674	680	680	679	192
25°	628	623	632	630	630	289
35°	552	551	560	557	557	345
45°	460	459	463	458	456	354
55°	352	348	347	342	342	314
65°	228	223	224	222	222	226
75°	98	103	109	110	110	106
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°	703.8	703.8	703.8	703.8	703.8
2.5°	708.1	701.9	703.8	702.3	699.7
5°	706.6	699.4	701.9	699.9	699.3
7.5°	701.4	694.4	697.6	696.4	695.7
10°	696.8	689.7	693.5	692.2	691.5
12.5°	690.5	683.9	688.2	687.0	686.7
15°	679.8	674.1	679.8	679.8	679.2
17.5°	666.4	661.1	667.3	667.7	667.3
20°	657.0	651.3	658.9	658.2	658.9
22.5°	645.5	640.9	649.0	647.3	648.0
25°	627.7	623.2	632.2	630.2	630.2
27.5°	606.6	603.3	613.2	611.1	611.1
30°	592.4	589.2	599.6	597.0	597.0
32.5°	576.8	574.6	584.6	581.4	581.4
35°	552.1	550.7	560.5	556.6	556.6
37.5°	526.5	525.3	534.2	529.5	527.9
40°	507.7	507.1	514.9	509.7	509.7
42.5°	489.0	488.3	495.1	488.9	488.9
45°	460.2	458.8	463.4	457.5	456.2
47.5°	428.7	427.5	430.3	423.9	423.2
50°	407.3	406.1	407.3	401.4	400.9
52.5°	385.5	383.1	383.3	377.5	377.4
55°	352.0	347.5	347.4	342.2	342.2
57.5°	316.5	310.7	311.2	306.7	306.0
60°	292.0	285.6	286.1	282.3	281.6
62.5°	268.0	260.6	262.1	257.7	257.6
65°	228.0	223.0	223.6	221.6	221.6
67.5°	189.7	185.1	188.5	186.9	186.8
70°	161.6	158.5	162.9	162.9	162.3
72.5°	135.6	135.5	141.0	141.0	141.5
75°	98.4	103.0	108.9	109.5	109.5
77.5°	65.7	73.6	80.2	80.4	80.3
80°	47.0	55.8	62.0	63.2	62.5
82.5°	31.8	41.2	46.3	47.6	47.0
85°	14.4	22.0	26.1	26.7	26.1
87.5°	4.2	8.7	10.4	10.4	9.4
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	17.97	19.58	18.33	19.90	20.21	17.85	19.47	18.22	19.78	20.10
	3H	19.51	20.97	19.89	21.30	21.66	19.45	20.91	19.83	21.24	21.60
	4H	20.02	21.39	20.42	21.74	22.12	20.05	21.42	20.45	21.77	22.15
	6H	20.26	21.53	20.67	21.89	22.28	20.42	21.69	20.83	22.05	22.44
	8H	20.32	21.53	20.75	21.92	22.32	20.56	21.77	20.98	22.16	22.56
	12H	20.35	21.51	20.78	21.89	22.32	20.64	21.80	21.07	22.19	22.61
4H	2H	18.56	19.93	18.96	20.28	20.66	18.47	19.84	18.87	20.19	20.56
	3H	20.32	21.46	20.73	21.86	22.26	20.29	21.44	20.70	21.83	22.24
	4H	20.93	21.96	21.36	22.37	22.81	21.00	22.03	21.43	22.44	22.88
	6H	21.27	22.17	21.72	22.61	23.07	21.47	22.37	21.93	22.81	23.27
	8H	21.37	22.21	21.83	22.65	23.12	21.66	22.50	22.12	22.94	23.41
	12H	21.42	22.18	21.90	22.65	23.12	21.79	22.54	22.27	23.02	23.49
8H	4H	21.18	22.03	21.64	22.47	22.93	21.24	22.09	21.70	22.53	22.99
	6H	21.63	22.33	22.12	22.81	23.29	21.83	22.53	22.33	23.02	23.50
	8H	21.79	22.42	22.30	22.93	23.41	22.09	22.72	22.60	23.23	23.71
	12H	21.90	22.45	22.40	22.94	23.50	22.29	22.84	22.80	23.33	23.90
12H	4H	21.21	21.96	21.69	22.44	22.91	21.26	22.02	21.74	22.49	22.96
	6H	21.67	22.30	22.18	22.81	23.30	21.87	22.50	22.38	23.00	23.49
	8H	21.90	22.45	22.40	22.94	23.50	22.19	22.74	22.69	23.23	23.79