

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: P1036334

Luminaire Tested: SQ4R-PW1-075D-B2750-1D-UNV-W2A_3500K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564826)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-075D-B2750-1D-UNV-W2A_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

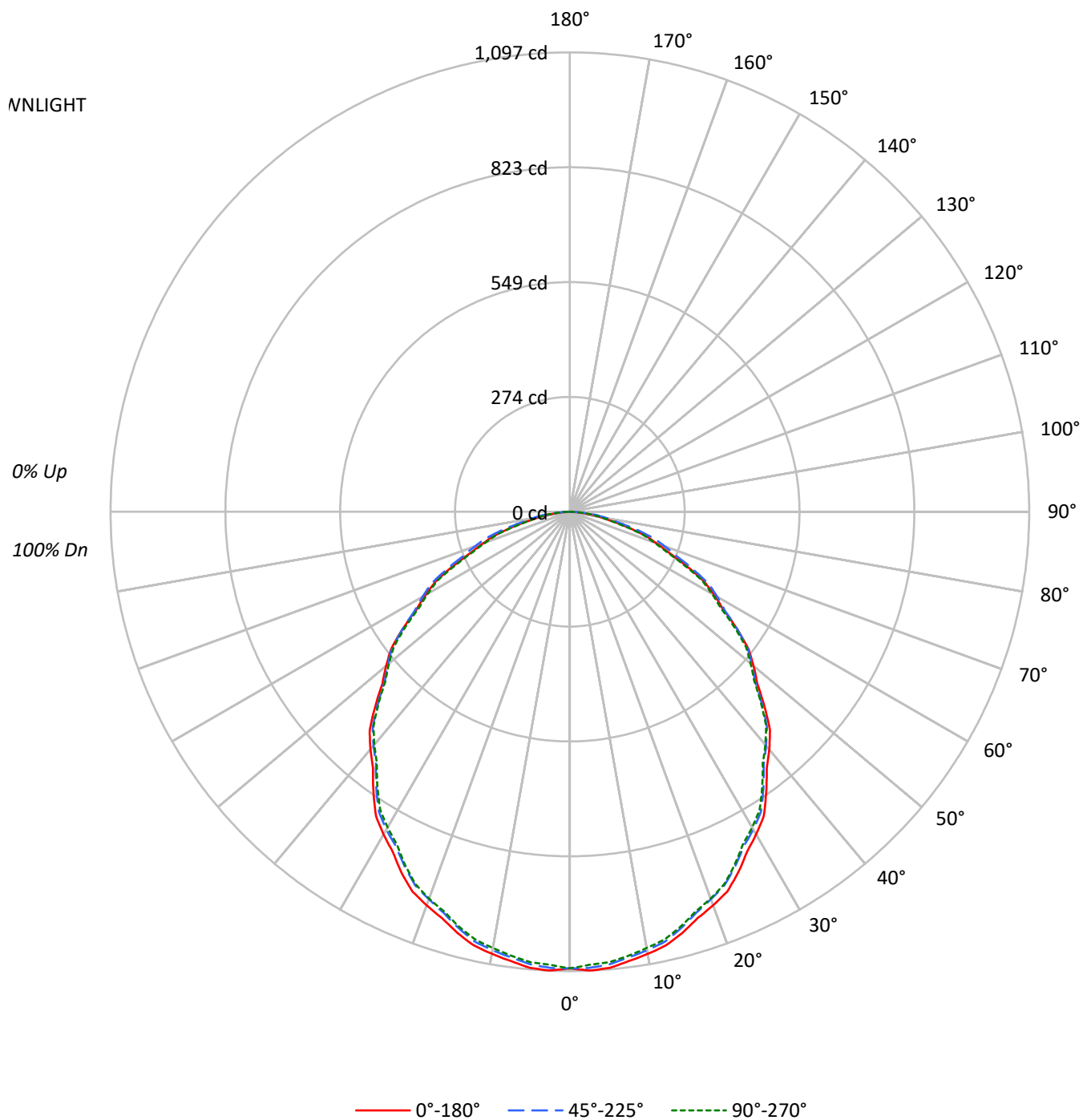
Lumens per Lamp: N/A
Luminaire Lumens: 2774.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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	102	99	95	98	95	92		94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10059	10059	10059
5°	10126	10045	10001
10°	10044	9963	9909
15°	9939	9828	9790
20°	9819	9667	9650
25°	9682	9506	9476
30°	9477	9335	9273
35°	9209	9077	9024
40°	8922	8781	8748
45°	8574	8462	8422
50°	8220	8151	8092
55°	7834	7834	7711
60°	7359	7499	7233
65°	6731	7067	6565
70°	5932	6504	5781
75°	5073	5821	4930
80°	3932	4904	3990
85°	2541	3769	3345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.7
10°-20°	289.9	10.4
20°-30°	430.0	15.5
30°-40°	503.1	18.1
40°-50°	500.9	18.1
50°-60°	432.6	15.6
60°-70°	311.3	11.2
70°-80°	163.3	5.9
80°-90°	40.5	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°	822.6	29.6
0°-40°	1325.7	47.8
0°-60°	2259.1	81.4
0°-90°	2774.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1093	1081	1085	1082	1080	104
15°	1040	1027	1029	1027	1025	293
25°	951	935	934	928	931	437
35°	818	806	806	798	801	511
45°	657	651	648	646	646	507
55°	487	486	487	480	479	435
65°	308	318	324	311	301	306
75°	142	155	163	152	138	152
85°	24	32	36	34	32	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1096.6	1087.5	1090.3	1088.0	1082.7
5°	1093.3	1081.0	1084.6	1081.7	1079.8
7.5°	1082.2	1070.9	1073.4	1070.5	1069.3
10°	1072.1	1060.9	1063.5	1059.7	1057.7
12.5°	1060.7	1048.5	1051.3	1047.3	1046.3
15°	1040.5	1027.2	1028.9	1026.9	1025.0
17.5°	1016.9	1003.7	1003.9	1000.9	1000.4
20°	1000.1	986.0	984.6	980.8	982.9
22.5°	981.7	966.8	965.5	960.2	962.8
25°	951.1	935.1	933.8	928.1	930.8
27.5°	915.7	900.1	900.1	892.0	894.9
30°	889.6	874.5	876.2	866.6	870.4
32.5°	861.9	848.4	849.2	839.8	843.5
35°	817.6	806.3	805.9	798.3	801.2
37.5°	772.2	762.3	760.6	756.3	756.9
40°	740.8	732.3	729.1	726.3	726.3
42.5°	707.6	700.0	696.8	694.7	694.0
45°	657.1	651.4	648.5	646.5	645.5
47.5°	607.1	601.9	599.3	598.0	597.0
50°	572.7	568.8	567.9	564.8	563.8
52.5°	538.0	535.8	534.7	531.1	530.1
55°	487.0	486.2	487.0	480.4	479.4
57.5°	434.0	435.6	438.7	429.6	427.2
60°	398.8	402.4	406.4	395.8	392.0
62.5°	362.5	368.6	374.1	361.9	356.5
65°	308.3	317.7	323.7	311.0	300.7
67.5°	256.2	267.7	274.9	261.3	249.5
70°	219.9	233.2	241.1	227.3	214.3
72.5°	188.5	203.2	209.6	196.6	183.5
75°	142.3	155.3	163.3	152.4	138.3
77.5°	100.9	113.3	119.9	110.5	98.7
80°	74.0	87.1	92.3	84.3	75.1
82.5°	52.5	63.4	66.9	62.1	55.7
85°	24.0	31.5	35.6	33.7	31.6
87.5°	6.2	11.4	14.6	14.6	15.4
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	19.03	20.63	19.40	20.95	21.26	18.93	20.53	19.30	20.85	21.16
	3H	20.59	22.03	20.97	22.36	22.72	20.46	21.90	20.84	22.23	22.59
	4H	21.14	22.50	21.54	22.84	23.22	21.00	22.36	21.40	22.71	23.08
	6H	21.43	22.69	21.85	23.06	23.45	21.30	22.56	21.71	22.92	23.31
	8H	21.53	22.72	21.95	23.11	23.51	21.40	22.60	21.83	22.99	23.39
	12H	21.56	22.71	21.99	23.09	23.52	21.47	22.61	21.90	23.00	23.42
4H	2H	19.67	21.03	20.07	21.38	21.75	19.59	20.95	19.99	21.30	21.68
	3H	21.47	22.61	21.88	23.00	23.40	21.36	22.49	21.77	22.89	23.29
	4H	22.13	23.16	22.57	23.57	24.01	22.01	23.04	22.44	23.45	23.89
	6H	22.54	23.43	22.99	23.87	24.33	22.42	23.31	22.87	23.75	24.21
	8H	22.67	23.50	23.13	23.94	24.41	22.56	23.39	23.02	23.83	24.30
	12H	22.74	23.48	23.22	23.96	24.43	22.65	23.40	23.14	23.88	24.35
8H	4H	22.41	23.24	22.87	23.69	24.15	22.30	23.14	22.76	23.58	24.04
	6H	22.93	23.62	23.42	24.11	24.59	22.82	23.51	23.31	24.00	24.48
	8H	23.13	23.75	23.64	24.26	24.74	23.03	23.65	23.54	24.16	24.64
	12H	23.25	23.80	23.76	24.29	24.85	23.19	23.73	23.69	24.22	24.79
12H	4H	22.43	23.18	22.91	23.65	24.12	22.32	23.07	22.81	23.55	24.02
	6H	22.97	23.60	23.49	24.10	24.59	22.87	23.49	23.38	24.00	24.48
	8H	23.23	23.78	23.74	24.27	24.83	23.14	23.68	23.64	24.17	24.74