

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: P1036205

Luminaire Tested: SQ4R-F-075D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P520092)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-075D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

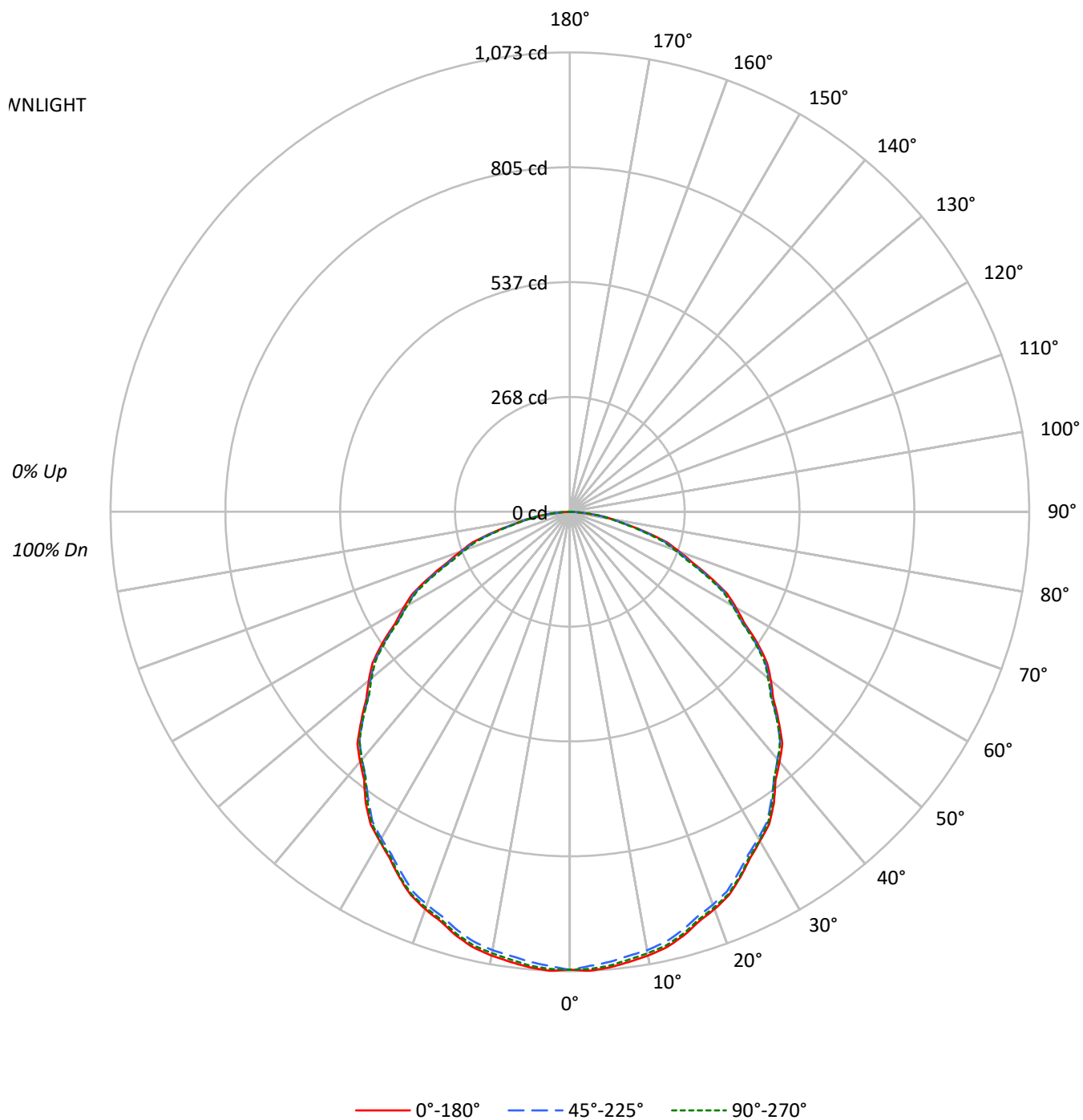
Lumens per Lamp: N/A
Luminaire Lumens: 2919.9 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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			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	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9870	9870	9870
5°	9896	9776	9855
10°	9861	9740	9808
15°	9794	9671	9753
20°	9700	9590	9660
25°	9593	9477	9565
30°	9460	9383	9443
35°	9357	9245	9291
40°	9179	9090	9108
45°	8987	8914	8914
50°	8799	8717	8675
55°	8593	8479	8432
60°	8274	8139	8088
65°	7879	7722	7628
70°	7340	7184	7030
75°	6584	6381	6224
80°	5329	5260	5095
85°	3165	3652	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	3.5
10°-20°	287.4	9.8
20°-30°	431.7	14.8
30°-40°	515.4	17.7
40°-50°	528.1	18.1
50°-60°	471.0	16.1
60°-70°	350.8	12.0
70°-80°	190.4	6.5
80°-90°	44.1	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°	820.1	28.1
0°-40°	1335.5	45.7
0°-60°	2334.6	80.0
0°-90°	2919.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1068	1067	1056	1066	1064	101
15°	1025	1022	1012	1021	1021	289
25°	942	940	931	937	940	434
35°	831	828	821	821	825	518
45°	689	690	683	682	683	532
55°	534	534	527	523	524	476
65°	361	360	354	349	349	357
75°	185	183	179	176	175	195
85°	30	33	34	36	36	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.8	1069.8	1069.8	1069.8	1069.8
2.5°	1073.1	1070.9	1061.8	1069.8	1068.8
5°	1068.5	1067.0	1055.6	1065.5	1064.1
7.5°	1060.6	1057.9	1046.5	1056.4	1055.0
10°	1052.6	1049.7	1039.7	1048.2	1046.9
12.5°	1042.4	1040.7	1029.5	1038.1	1037.7
15°	1025.4	1022.5	1012.5	1021.1	1021.1
17.5°	1003.1	1001.4	991.5	999.8	999.0
20°	988.0	985.4	976.7	983.9	983.9
22.5°	969.9	968.2	959.6	965.5	966.7
25°	942.3	939.6	930.9	936.7	939.6
27.5°	912.0	909.8	902.7	906.3	908.3
30°	888.0	888.0	880.7	882.2	886.4
32.5°	866.2	866.2	857.9	859.4	861.4
35°	830.8	827.9	820.8	820.8	824.9
37.5°	789.3	788.0	783.4	782.6	783.8
40°	762.1	760.6	754.7	756.2	756.2
42.5°	734.5	733.0	727.1	725.2	727.4
45°	688.8	690.3	683.2	681.7	683.2
47.5°	644.0	644.0	638.2	634.2	636.4
50°	613.0	613.0	607.3	604.4	604.4
52.5°	580.9	582.0	575.0	571.2	572.4
55°	534.2	534.2	527.1	522.8	524.2
57.5°	482.6	482.6	475.6	471.2	473.7
60°	448.4	448.4	441.1	436.7	438.3
62.5°	413.9	413.9	406.9	402.5	402.7
65°	360.9	359.6	353.7	349.4	349.4
67.5°	309.9	306.2	301.9	296.2	296.2
70°	272.1	270.6	266.3	260.6	260.6
72.5°	237.7	235.2	230.8	226.4	226.4
75°	184.7	183.2	179.0	176.2	174.6
77.5°	132.3	131.2	130.9	126.9	128.1
80°	100.3	100.3	99.0	95.9	95.9
82.5°	71.6	72.7	70.2	69.5	68.4
85°	29.9	32.8	34.5	35.7	35.7
87.5°	5.9	9.0	8.0	9.2	9.2
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	19.54	21.17	19.90	21.48	21.79	19.38	21.01	19.74	21.32	21.63
	3H	21.28	22.75	21.66	23.08	23.44	21.07	22.54	21.45	22.87	23.23
	4H	21.94	23.32	22.33	23.67	24.04	21.71	23.09	22.10	23.44	23.81
	6H	22.31	23.59	22.72	23.95	24.34	22.07	23.35	22.48	23.72	24.11
	8H	22.43	23.66	22.86	24.04	24.44	22.19	23.42	22.62	23.81	24.21
	12H	22.48	23.66	22.91	24.04	24.47	22.26	23.43	22.69	23.81	24.24
4H	2H	20.16	21.54	20.56	21.89	22.27	20.03	21.42	20.43	21.76	22.14
	3H	22.13	23.29	22.54	23.69	24.09	21.96	23.11	22.36	23.51	23.91
	4H	22.89	23.94	23.33	24.35	24.79	22.69	23.74	23.12	24.15	24.58
	6H	23.37	24.28	23.82	24.72	25.18	23.16	24.07	23.61	24.51	24.97
	8H	23.54	24.39	24.00	24.83	25.30	23.32	24.17	23.78	24.62	25.08
	12H	23.62	24.39	24.10	24.86	25.33	23.42	24.18	23.90	24.66	25.13
8H	4H	23.15	24.01	23.61	24.45	24.91	22.97	23.82	23.43	24.27	24.73
	6H	23.73	24.44	24.23	24.93	25.40	23.54	24.25	24.03	24.74	25.21
	8H	23.97	24.60	24.47	25.11	25.59	23.77	24.40	24.27	24.91	25.39
	12H	24.10	24.66	24.60	25.15	25.71	23.92	24.48	24.43	24.97	25.53
12H	4H	23.17	23.94	23.65	24.41	24.88	22.99	23.76	23.47	24.24	24.71
	6H	23.77	24.41	24.28	24.91	25.40	23.58	24.22	24.09	24.73	25.21
	8H	24.05	24.61	24.56	25.10	25.66	23.86	24.42	24.37	24.91	25.47