

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: P1036270

Luminaire Tested: SQ4R-PP3-075D-B2750-1D-UNV-W2A_3500K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036270
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-PP3-075D-B2750-1D-UNV-W2A_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

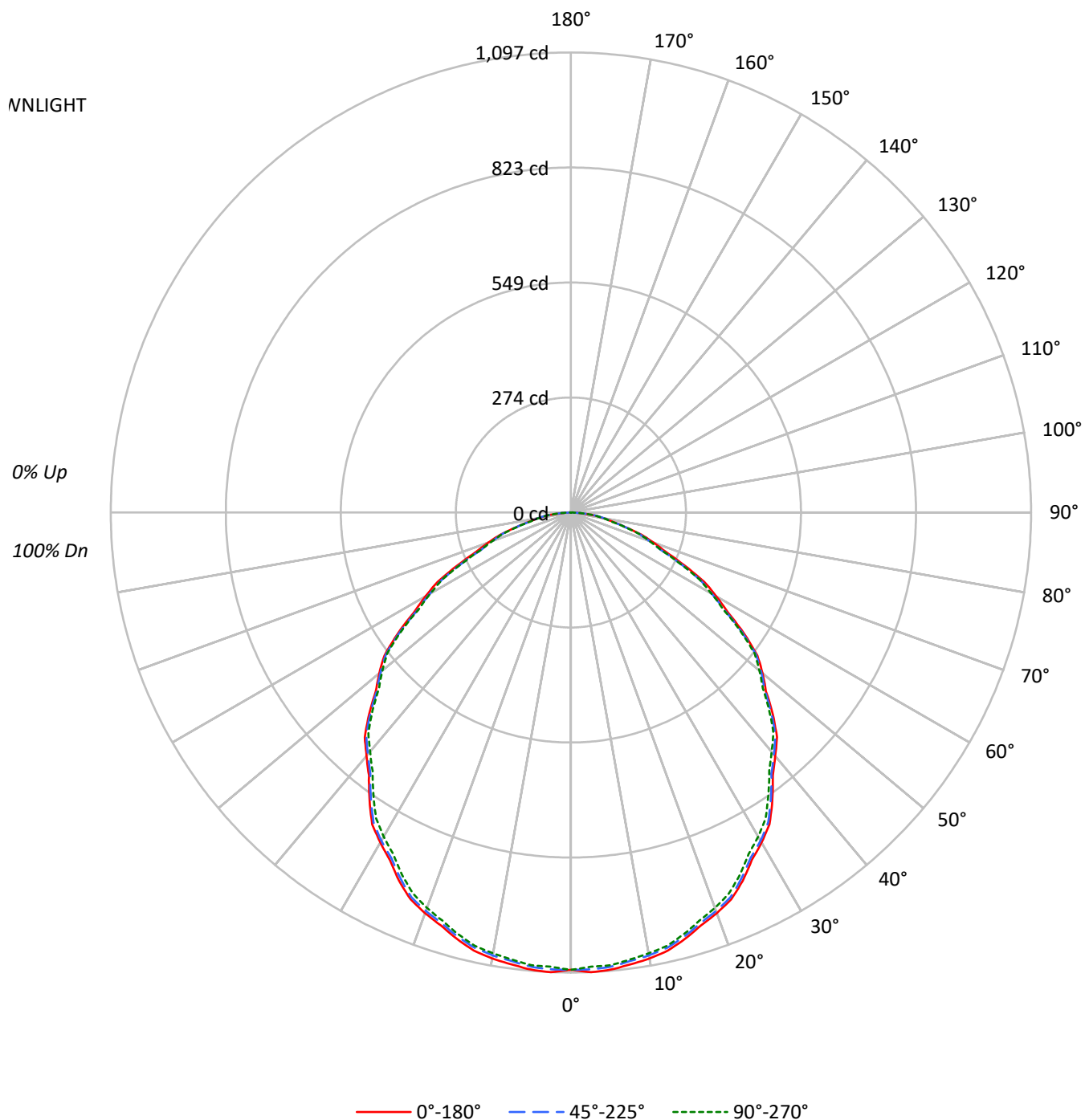
Lumens per Lamp: N/A
Luminaire Lumens: 2790.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10061	10061	10061
5°	10134	10072	10037
10°	10117	10046	10001
15°	10051	9996	9940
20°	9983	9927	9852
25°	9865	9797	9701
30°	9683	9632	9509
35°	9429	9365	9246
40°	9127	9069	8967
45°	8879	8816	8728
50°	8559	8504	8421
55°	8115	8011	7949
60°	7388	7180	7141
65°	6512	6237	6217
70°	5616	5387	5387
75°	4837	4770	4698
80°	4261	4314	4213
85°	3335	3642	3642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8879 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.7
10°-20°	294.4	10.5
20°-30°	441.0	15.8
30°-40°	517.3	18.5
40°-50°	518.9	18.6
50°-60°	442.7	15.9
60°-70°	288.7	10.3
70°-80°	144.8	5.2
80°-90°	40.1	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°	838.5	30.0
0°-40°	1355.8	48.6
0°-60°	2317.3	83.0
0°-90°	2790.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1094	1084	1088	1084	1084	104
15°	1052	1042	1046	1043	1041	297
25°	969	958	962	954	953	446
35°	837	829	832	822	821	523
45°	680	676	676	669	669	524
55°	504	503	498	495	494	448
65°	298	293	286	284	285	298
75°	136	136	134	133	132	147
85°	32	34	34	34	34	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.5	1090.5	1090.5	1090.5	1090.5
2.5°	1097.3	1088.4	1090.5	1088.9	1084.3
5°	1094.2	1084.1	1087.5	1083.7	1083.7
7.5°	1086.8	1075.6	1079.1	1075.3	1075.2
10°	1079.9	1068.7	1072.3	1068.4	1067.5
12.5°	1070.1	1058.8	1063.1	1058.5	1058.3
15°	1052.3	1041.9	1046.5	1042.6	1040.7
17.5°	1032.1	1020.9	1026.4	1021.1	1020.3
20°	1016.8	1005.6	1011.1	1003.4	1003.4
22.5°	998.5	987.3	993.5	983.6	983.6
25°	969.1	957.8	962.4	953.7	952.9
27.5°	934.1	923.1	927.9	918.0	917.8
30°	908.9	898.5	904.1	893.5	892.6
32.5°	881.4	871.8	875.8	865.2	864.3
35°	837.2	828.8	831.5	821.9	820.9
37.5°	790.8	782.2	785.1	776.9	776.6
40°	757.8	752.2	753.0	746.3	744.5
42.5°	727.3	720.9	721.7	714.9	714.6
45°	680.5	675.7	675.7	668.9	668.9
47.5°	630.8	627.2	626.2	620.5	620.4
50°	596.3	593.5	592.5	587.7	586.7
52.5°	560.4	559.1	555.8	551.8	551.6
55°	504.5	502.7	498.0	495.0	494.2
57.5°	444.1	440.3	434.9	430.8	431.4
60°	400.4	396.6	389.1	387.0	387.0
62.5°	358.4	353.9	346.2	343.6	345.0
65°	298.3	292.6	285.7	283.9	284.8
67.5°	243.6	238.4	231.0	231.0	230.4
70°	208.2	205.5	199.7	199.7	199.7
72.5°	176.9	175.7	171.5	171.3	170.7
75°	135.7	135.7	133.8	132.8	131.8
77.5°	101.7	102.0	101.2	100.2	98.3
80°	80.2	82.2	81.2	80.2	79.3
82.5°	60.5	62.2	62.1	60.5	60.2
85°	31.5	34.2	34.4	34.4	34.4
87.5°	8.4	11.4	12.2	12.2	13.0
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	19.11	20.69	19.47	21.01	21.32	18.94	20.53	19.31	20.85	21.16
	3H	20.42	21.85	20.80	22.18	22.54	20.22	21.65	20.60	21.97	22.33
	4H	20.91	22.25	21.30	22.59	22.97	20.70	22.05	21.10	22.39	22.77
	6H	21.22	22.46	21.63	22.83	23.22	21.02	22.27	21.44	22.63	23.02
	8H	21.35	22.53	21.77	22.92	23.32	21.15	22.34	21.58	22.73	23.13
	12H	21.42	22.55	21.85	22.93	23.36	21.24	22.37	21.67	22.75	23.18
4H	2H	19.57	20.92	19.97	21.26	21.64	19.44	20.78	19.84	21.13	21.51
	3H	21.11	22.23	21.52	22.63	23.03	20.94	22.06	21.35	22.46	22.86
	4H	21.71	22.71	22.14	23.13	23.56	21.53	22.54	21.97	22.96	23.39
	6H	22.14	23.02	22.60	23.46	23.92	21.97	22.85	22.43	23.29	23.75
	8H	22.32	23.14	22.78	23.58	24.04	22.15	22.97	22.61	23.41	23.88
	12H	22.43	23.16	22.91	23.64	24.11	22.28	23.01	22.76	23.49	23.96
8H	4H	21.91	22.73	22.37	23.17	23.64	21.76	22.58	22.22	23.02	23.49
	6H	22.46	23.14	22.96	23.63	24.11	22.31	22.99	22.80	23.48	23.95
	8H	22.71	23.32	23.22	23.83	24.32	22.56	23.17	23.07	23.68	24.17
	12H	22.89	23.43	23.40	23.92	24.48	22.76	23.30	23.26	23.79	24.35
12H	4H	21.93	22.66	22.41	23.14	23.61	21.78	22.51	22.26	22.99	23.46
	6H	22.50	23.11	23.01	23.62	24.11	22.35	22.96	22.86	23.47	23.96
	8H	22.81	23.35	23.32	23.84	24.40	22.66	23.20	23.17	23.69	24.26