

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: P1036275

Luminaire Tested: SQ4R-PP3-075D-B50-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036275
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-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

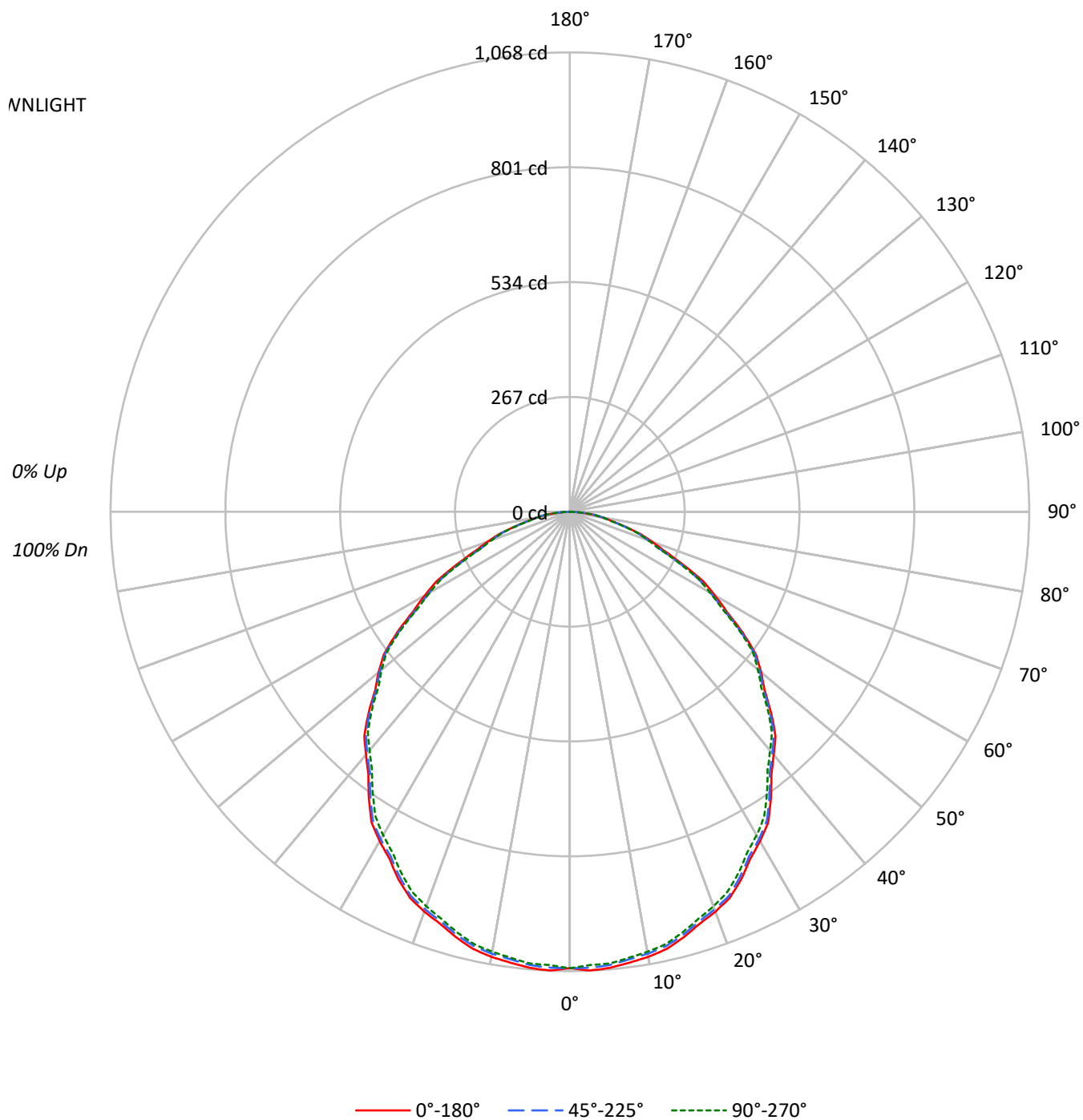
Lumens per Lamp: N/A
Luminaire Lumens: 2715.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1036275

CATALOG NUMBER: SQ4R-PP3-075D-B50-1D-UNV

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9788	9788	9788
5°	9860	9799	9764
10°	9844	9773	9730
15°	9778	9725	9671
20°	9712	9657	9585
25°	9598	9532	9438
30°	9420	9371	9250
35°	9174	9111	8996
40°	8879	8823	8723
45°	8638	8578	8492
50°	8328	8275	8193
55°	7896	7793	7734
60°	7189	6984	6947
65°	6335	6069	6047
70°	5465	5241	5241
75°	4705	4638	4570
80°	4150	4197	4096
85°	3250	3546	3546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8638 cd/sqm

TEST NUMBER: P1036275

CATALOG NUMBER: SQ4R-PP3-075D-B50-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.7
10°-20°	286.4	10.5
20°-30°	429.0	15.8
30°-40°	503.2	18.5
40°-50°	504.8	18.6
50°-60°	430.7	15.9
60°-70°	280.9	10.3
70°-80°	140.9	5.2
80°-90°	39.0	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°	815.8	30.0
0°-40°	1319.0	48.6
0°-60°	2254.5	83.0
0°-90°	2715.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1065	1055	1058	1054	1054	101
15°	1024	1014	1018	1014	1012	289
25°	943	932	936	928	927	434
35°	814	806	809	800	799	509
45°	662	657	657	651	651	510
55°	491	489	484	482	481	436
65°	290	285	278	276	277	290
75°	132	132	130	129	128	143
85°	31	33	34	34	34	37
90°	0	0	0	0	0	

TEST NUMBER: P1036275

CATALOG NUMBER: SQ4R-PP3-075D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1067.5	1058.8	1060.9	1059.3	1054.9
5°	1064.6	1054.7	1058.0	1054.3	1054.3
7.5°	1057.3	1046.5	1049.8	1046.2	1046.0
10°	1050.7	1039.7	1043.2	1039.4	1038.6
12.5°	1041.0	1030.1	1034.3	1029.8	1029.6
15°	1023.7	1013.6	1018.1	1014.3	1012.5
17.5°	1004.1	993.2	998.6	993.4	992.6
20°	989.2	978.3	983.6	976.2	976.2
22.5°	971.4	960.5	966.6	956.9	956.9
25°	942.8	931.8	936.3	927.8	927.1
27.5°	908.8	898.0	902.7	893.1	892.9
30°	884.2	874.1	879.6	869.3	868.3
32.5°	857.5	848.2	852.1	841.8	840.8
35°	814.5	806.4	808.9	799.6	798.7
37.5°	769.3	761.0	763.8	755.8	755.5
40°	737.2	731.8	732.6	726.0	724.3
42.5°	707.5	701.4	702.1	695.5	695.3
45°	662.0	657.4	657.4	650.8	650.8
47.5°	613.7	610.2	609.2	603.7	603.6
50°	580.2	577.4	576.5	571.8	570.8
52.5°	545.2	543.9	540.8	536.8	536.7
55°	490.9	489.1	484.5	481.5	480.8
57.5°	432.0	428.3	423.1	419.1	419.7
60°	389.6	385.9	378.5	376.5	376.5
62.5°	348.6	344.3	336.8	334.3	335.7
65°	290.2	284.7	278.0	276.2	277.0
67.5°	237.0	231.9	224.8	224.8	224.1
70°	202.6	199.9	194.3	194.3	194.3
72.5°	172.1	170.9	166.9	166.7	166.0
75°	132.0	132.0	130.1	129.2	128.2
77.5°	98.9	99.2	98.4	97.5	95.7
80°	78.1	80.0	79.0	78.1	77.1
82.5°	58.8	60.5	60.5	58.8	58.5
85°	30.7	33.3	33.5	33.5	33.5
87.5°	8.2	11.0	11.9	11.9	12.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036275

CATALOG NUMBER: SQ4R-PP3-075D-B50-1D-UNV

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	19.01	20.60	19.38	20.91	21.23	18.85	20.44	19.21	20.75	21.06
	3H	20.32	21.75	20.70	22.08	22.44	20.12	21.55	20.50	21.88	22.24
	4H	20.81	22.15	21.21	22.50	22.88	20.61	21.95	21.01	22.30	22.67
	6H	21.13	22.37	21.54	22.73	23.12	20.93	22.17	21.34	22.53	22.93
	8H	21.25	22.43	21.67	22.82	23.22	21.06	22.24	21.48	22.63	23.03
	12H	21.32	22.45	21.75	22.83	23.26	21.14	22.27	21.57	22.66	23.08
4H	2H	19.48	20.82	19.88	21.17	21.54	19.35	20.69	19.74	21.04	21.41
	3H	21.02	22.13	21.43	22.53	22.93	20.85	21.96	21.26	22.36	22.76
	4H	21.61	22.62	22.04	23.03	23.47	21.44	22.45	21.87	22.86	23.30
	6H	22.05	22.92	22.50	23.36	23.82	21.88	22.75	22.33	23.20	23.65
	8H	22.22	23.04	22.68	23.48	23.95	22.06	22.87	22.52	23.32	23.78
	12H	22.33	23.07	22.81	23.54	24.01	22.18	22.92	22.66	23.39	23.86
8H	4H	21.82	22.64	22.28	23.08	23.54	21.66	22.48	22.12	22.92	23.39
	6H	22.37	23.05	22.86	23.54	24.01	22.21	22.89	22.71	23.38	23.86
	8H	22.62	23.23	23.13	23.73	24.22	22.47	23.08	22.98	23.58	24.07
	12H	22.79	23.33	23.30	23.83	24.39	22.66	23.20	23.17	23.69	24.25
12H	4H	21.83	22.57	22.31	23.04	23.51	21.68	22.42	22.16	22.89	23.36
	6H	22.40	23.02	22.92	23.52	24.01	22.26	22.87	22.77	23.38	23.86
	8H	22.71	23.25	23.22	23.74	24.31	22.57	23.11	23.07	23.60	24.16