

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845101

Luminaire Tested: **SQ4P-PP3-0U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-0U-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

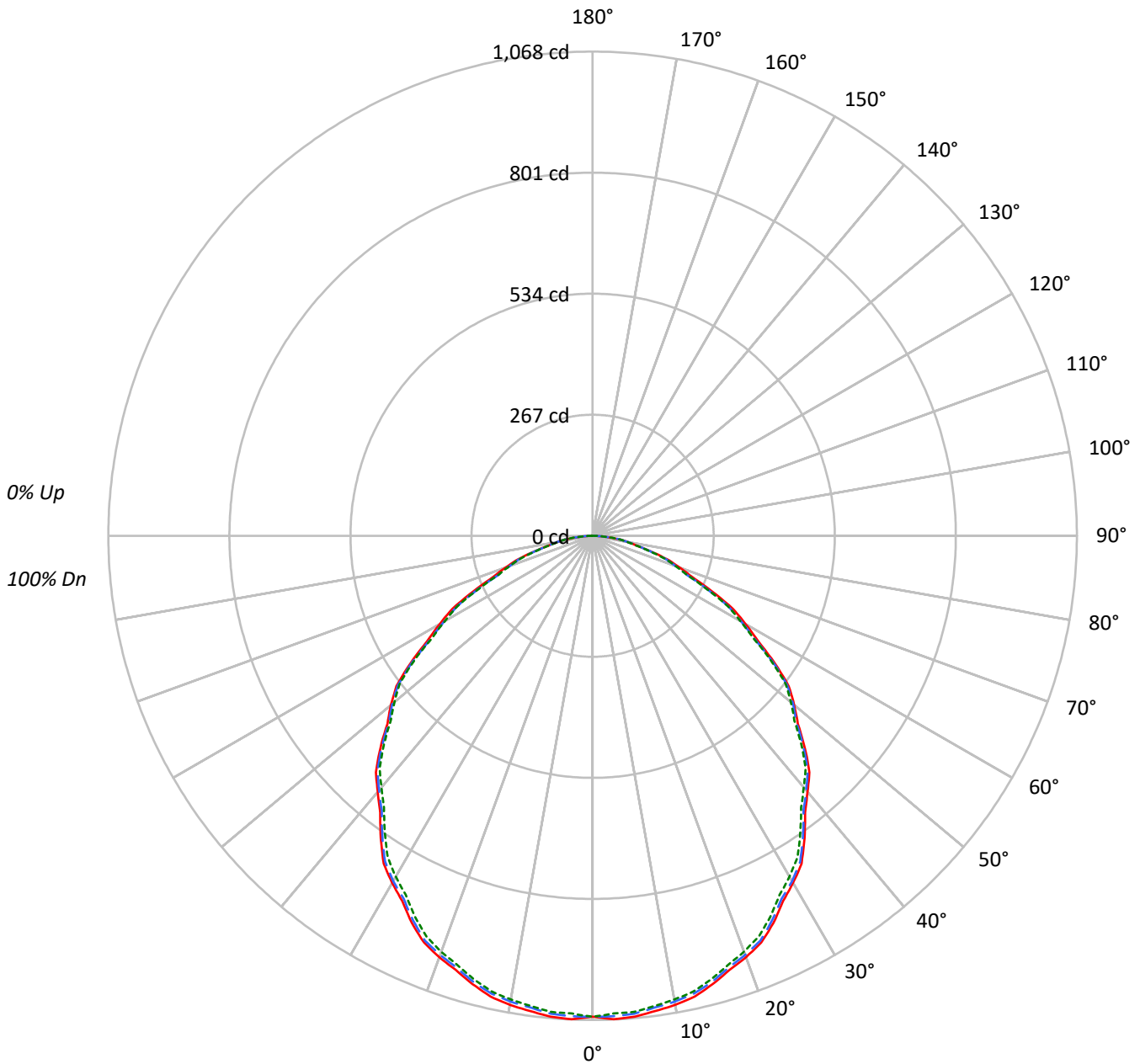
Lumens per Lamp: N/A
Luminaire Lumens: 2715.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P845101

CATALOG NUMBER: SQ4P-PP3-0U-075D-B50-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845101

CATALOG NUMBER: SQ4P-PP3-OU-075D-B50-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	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



TEST NUMBER: P845101

CATALOG NUMBER: SQ4P-PP3-OU-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: P845101

CATALOG NUMBER: SQ4P-PP3-OU-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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)