

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: P1036278

Luminaire Tested: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3500K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036278
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-PP3-100D-B2750-1D-UNV-W2A_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

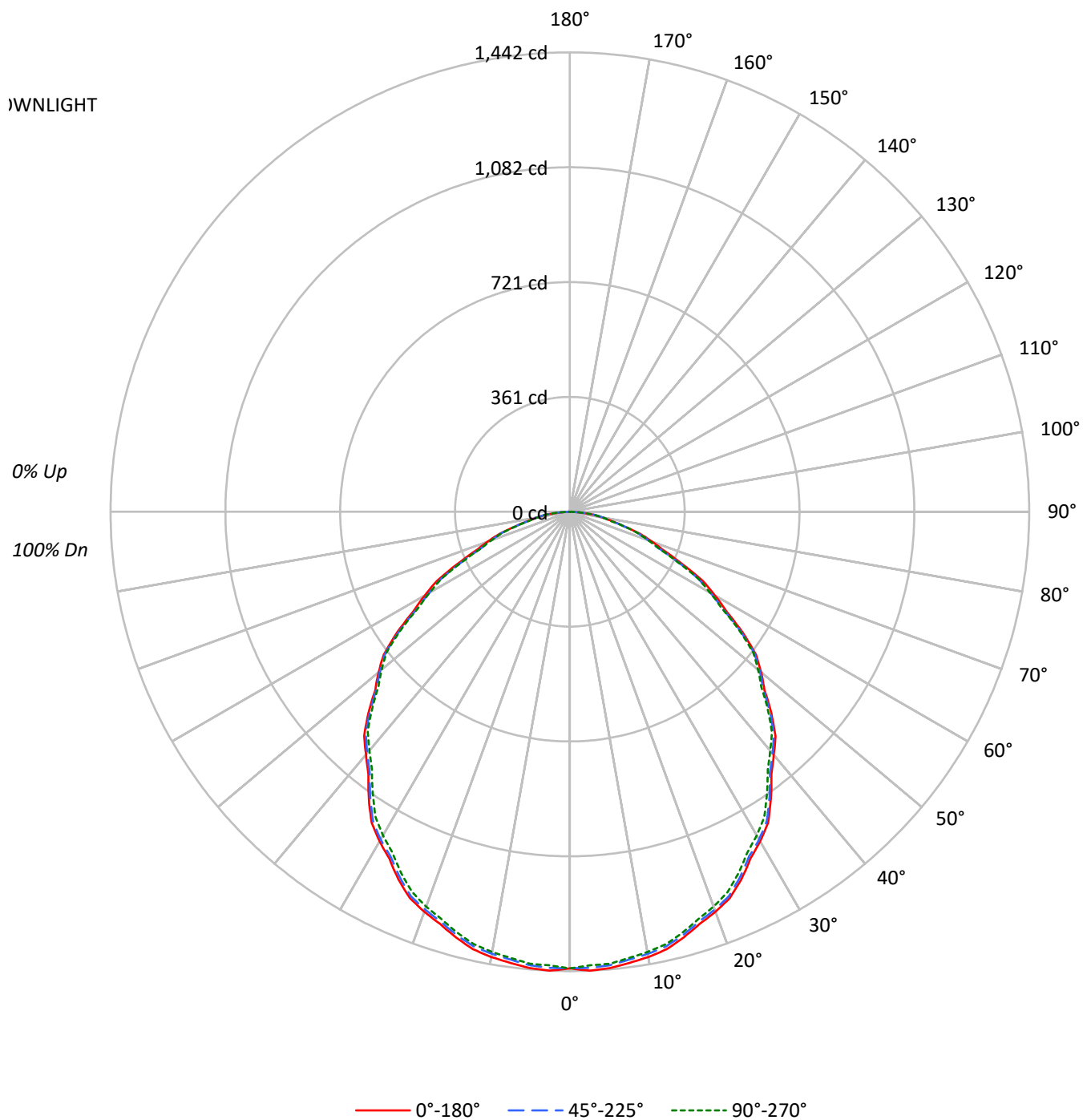
Lumens per Lamp: N/A
Luminaire Lumens: 3667.7 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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: P1036278

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3500K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	13221	13221	13221
5°	13318	13236	13190
10°	13296	13202	13144
15°	13208	13136	13063
20°	13119	13046	12947
25°	12964	12876	12748
30°	12725	12658	12497
35°	12392	12307	12151
40°	11995	11919	11784
45°	11669	11586	11470
50°	11247	11176	11068
55°	10666	10526	10446
60°	9710	9433	9387
65°	8556	8198	8169
70°	7383	7081	7081
75°	6359	6267	6174
80°	5605	5674	5531
85°	4383	4785	4785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11669 cd/sqm

TEST NUMBER: P1036278

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.7
10°-20°	386.9	10.5
20°-30°	579.5	15.8
30°-40°	679.8	18.5
40°-50°	681.8	18.6
50°-60°	581.7	15.9
60°-70°	379.4	10.3
70°-80°	190.3	5.2
80°-90°	52.7	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°	1102.0	30.0
0°-40°	1781.7	48.6
0°-60°	3045.3	83.0
0°-90°	3667.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1438	1425	1429	1424	1424	137
15°	1383	1369	1375	1370	1368	390
25°	1274	1259	1265	1253	1252	586
35°	1100	1089	1093	1080	1079	687
45°	894	888	888	879	879	689
55°	663	661	654	650	649	589
65°	392	385	376	373	374	391
75°	178	178	176	175	173	193
85°	41	45	45	45	45	50
90°	0	0	0	0	0	

TEST NUMBER: P1036278

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.0	1433.0	1433.0	1433.0	1433.0
2.5°	1441.9	1430.3	1433.0	1430.9	1425.1
5°	1438.0	1424.6	1429.2	1424.2	1424.2
7.5°	1428.3	1413.5	1418.1	1413.1	1413.0
10°	1419.2	1404.4	1409.2	1404.0	1403.0
12.5°	1406.2	1391.5	1397.1	1391.0	1390.8
15°	1382.8	1369.2	1375.3	1370.1	1367.6
17.5°	1356.4	1341.7	1348.9	1341.9	1340.8
20°	1336.2	1321.6	1328.7	1318.7	1318.7
22.5°	1312.3	1297.5	1305.7	1292.5	1292.5
25°	1273.5	1258.7	1264.8	1253.3	1252.3
27.5°	1227.5	1213.0	1219.3	1206.4	1206.1
30°	1194.4	1180.8	1188.2	1174.3	1173.0
32.5°	1158.2	1145.7	1150.9	1137.1	1135.7
35°	1100.2	1089.1	1092.7	1080.1	1078.8
37.5°	1039.1	1027.9	1031.8	1020.9	1020.5
40°	995.9	988.5	989.6	980.7	978.4
42.5°	955.8	947.3	948.4	939.5	939.1
45°	894.3	888.0	888.0	879.1	879.1
47.5°	828.9	824.1	822.9	815.4	815.2
50°	783.6	780.0	778.6	772.4	771.1
52.5°	736.5	734.7	730.4	725.2	725.0
55°	663.1	660.6	654.4	650.5	649.4
57.5°	583.6	578.6	571.5	566.0	566.9
60°	526.2	521.2	511.2	508.7	508.7
62.5°	471.0	465.1	454.9	451.5	453.5
65°	391.9	384.6	375.5	373.1	374.2
67.5°	320.1	313.3	303.6	303.6	302.8
70°	273.7	270.0	262.5	262.5	262.5
72.5°	232.6	230.8	225.5	225.2	224.3
75°	178.4	178.4	175.8	174.6	173.2
77.5°	133.6	134.1	133.0	131.6	129.3
80°	105.5	108.0	106.8	105.5	104.1
82.5°	79.5	81.8	81.6	79.5	79.1
85°	41.4	45.0	45.2	45.2	45.2
87.5°	11.1	15.0	16.0	16.0	17.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036278

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3500K

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	20.06	21.64	20.42	21.96	22.27	19.89	21.48	20.26	21.79	22.11
	3H	21.37	22.80	21.75	23.12	23.49	21.17	22.60	21.54	22.92	23.28
	4H	21.85	23.20	22.25	23.54	23.92	21.65	22.99	22.05	23.34	23.72
	6H	22.17	23.41	22.58	23.78	24.17	21.97	23.21	22.38	23.58	23.97
	8H	22.30	23.48	22.72	23.87	24.27	22.10	23.29	22.53	23.67	24.07
	12H	22.37	23.50	22.80	23.88	24.31	22.19	23.32	22.62	23.70	24.13
4H	2H	20.52	21.87	20.92	22.21	22.59	20.39	21.73	20.79	22.08	22.46
	3H	22.06	23.18	22.47	23.58	23.98	21.89	23.01	22.30	23.41	23.81
	4H	22.66	23.66	23.09	24.08	24.51	22.48	23.49	22.92	23.90	24.34
	6H	23.09	23.97	23.55	24.41	24.87	22.92	23.80	23.38	24.24	24.70
	8H	23.27	24.09	23.73	24.53	24.99	23.10	23.92	23.56	24.36	24.83
	12H	23.38	24.11	23.86	24.59	25.06	23.23	23.96	23.71	24.44	24.91
8H	4H	22.86	23.68	23.32	24.12	24.59	22.71	23.53	23.17	23.97	24.43
	6H	23.41	24.09	23.91	24.58	25.06	23.26	23.94	23.75	24.43	24.90
	8H	23.66	24.27	24.17	24.78	25.27	23.51	24.12	24.02	24.63	25.12
	12H	23.84	24.38	24.35	24.87	25.43	23.71	24.25	24.21	24.74	25.30
12H	4H	22.88	23.61	23.36	24.09	24.56	22.73	23.46	23.21	23.94	24.41
	6H	23.45	24.06	23.96	24.57	25.06	23.30	23.91	23.81	24.42	24.91
	8H	23.76	24.30	24.27	24.79	25.35	23.61	24.15	24.12	24.64	25.21

END OF REPORT