

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: P1036277

Luminaire Tested: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036277
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_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

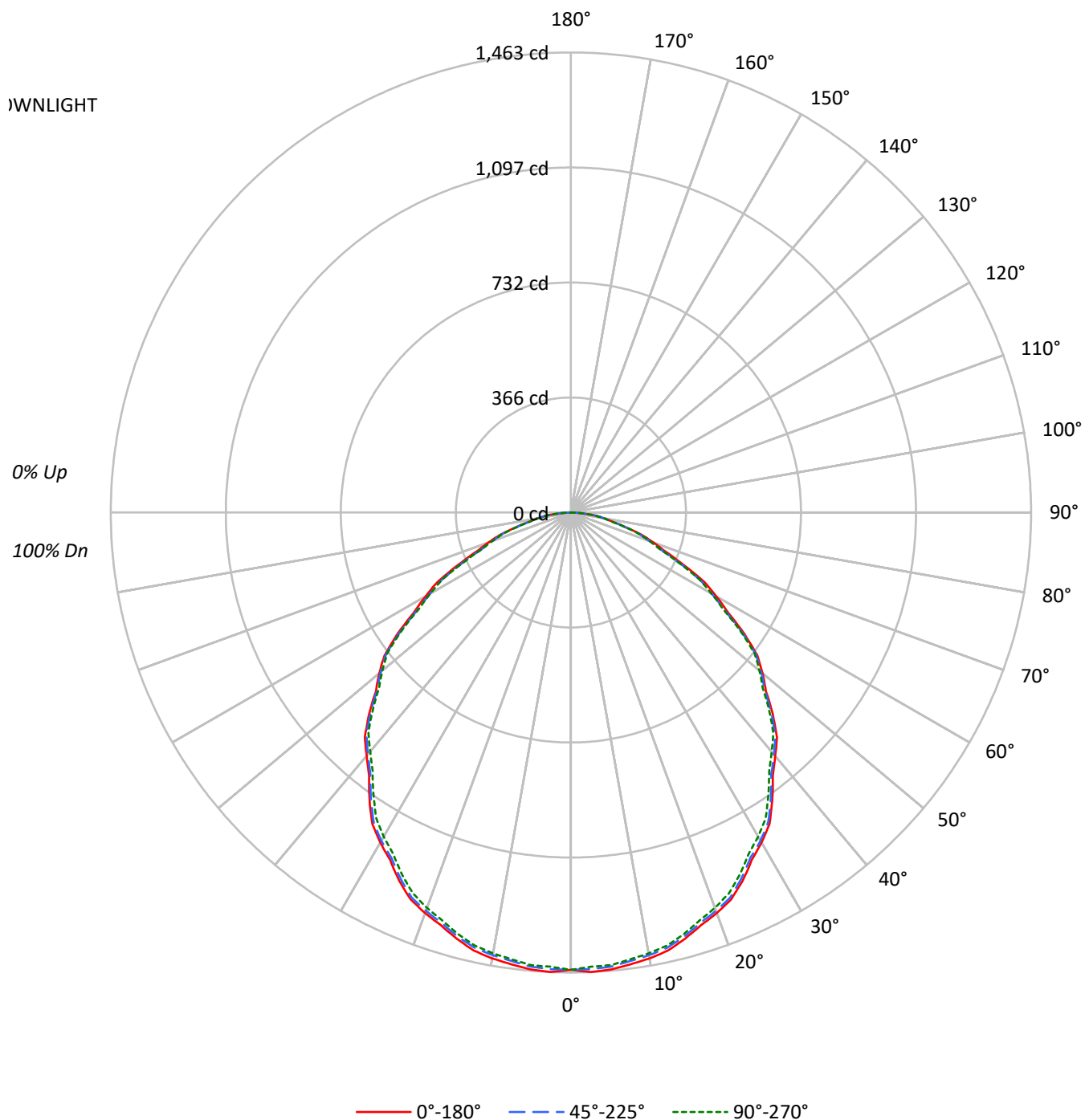
Lumens per Lamp: N/A
Luminaire Lumens: 3721.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P1036277

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3000K

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°	13414	13414	13414
5°	13512	13429	13382
10°	13490	13394	13335
15°	13400	13327	13254
20°	13311	13235	13136
25°	13153	13063	12934
30°	12910	12843	12679
35°	12572	12486	12327
40°	12169	12092	11955
45°	11838	11756	11637
50°	11411	11339	11229
55°	10821	10679	10597
60°	9850	9569	9523
65°	8680	8315	8289
70°	7491	7184	7184
75°	6452	6359	6263
80°	5685	5754	5611
85°	4446	4859	4859

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11838 cd/sqm

TEST NUMBER: P1036277

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.7
10°-20°	392.5	10.5
20°-30°	588.0	15.8
30°-40°	689.7	18.5
40°-50°	691.8	18.6
50°-60°	590.2	15.9
60°-70°	384.9	10.3
70°-80°	193.1	5.2
80°-90°	53.4	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°	1118.0	30.0
0°-40°	1807.6	48.6
0°-60°	3089.6	83.0
0°-90°	3721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1459	1445	1450	1445	1445	139
15°	1403	1389	1395	1390	1388	396
25°	1292	1277	1283	1272	1270	594
35°	1116	1105	1109	1096	1094	697
45°	907	901	901	892	892	699
55°	673	670	664	660	659	598
65°	398	390	381	379	380	397
75°	181	181	178	177	176	196
85°	42	46	46	46	46	51
90°	0	0	0	0	0	

TEST NUMBER: P1036277

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.9	1453.9	1453.9	1453.9	1453.9
2.5°	1462.9	1451.1	1453.9	1451.7	1445.8
5°	1458.9	1445.3	1450.0	1444.9	1444.9
7.5°	1449.1	1434.1	1438.8	1433.7	1433.5
10°	1439.9	1424.9	1429.7	1424.5	1423.4
12.5°	1426.7	1411.8	1417.4	1411.3	1411.1
15°	1402.9	1389.1	1395.3	1390.0	1387.6
17.5°	1376.1	1361.2	1368.5	1361.4	1360.3
20°	1355.7	1340.8	1348.0	1337.9	1337.9
22.5°	1331.4	1316.4	1324.7	1311.3	1311.3
25°	1292.0	1277.1	1283.2	1271.6	1270.5
27.5°	1245.4	1230.7	1237.0	1223.9	1223.6
30°	1211.8	1198.0	1205.5	1191.4	1190.1
32.5°	1175.1	1162.4	1167.6	1153.6	1152.3
35°	1116.2	1105.0	1108.6	1095.9	1094.5
37.5°	1054.3	1042.8	1046.8	1035.8	1035.4
40°	1010.4	1002.9	1004.0	995.0	992.6
42.5°	969.7	961.1	962.2	953.2	952.8
45°	907.3	901.0	901.0	891.9	891.9
47.5°	841.0	836.1	834.9	827.3	827.1
50°	795.0	791.4	790.0	783.6	782.3
52.5°	747.2	745.4	741.0	735.8	735.6
55°	672.7	670.2	663.9	659.9	658.8
57.5°	592.1	587.0	579.8	574.2	575.1
60°	533.8	528.8	518.6	516.1	516.1
62.5°	477.8	471.9	461.6	458.1	460.1
65°	397.6	390.2	380.9	378.6	379.7
67.5°	324.7	317.9	308.0	308.0	307.2
70°	277.7	273.9	266.3	266.3	266.3
72.5°	236.0	234.2	228.7	228.4	227.6
75°	181.0	181.0	178.4	177.1	175.7
77.5°	135.5	136.0	134.9	133.5	131.2
80°	107.0	109.6	108.3	107.0	105.6
82.5°	80.6	83.0	82.8	80.6	80.2
85°	42.0	45.7	45.9	45.9	45.9
87.5°	11.2	15.2	16.3	16.3	17.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036277

CATALOG NUMBER: SQ4R-PP3-100D-B2750-1D-UNV-W2A_3000K

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	20.11	21.69	20.47	22.01	22.32	19.94	21.53	20.31	21.84	22.16
	3H	21.42	22.85	21.80	23.17	23.54	21.22	22.64	21.59	22.97	23.33
	4H	21.90	23.25	22.30	23.59	23.97	21.70	23.04	22.10	23.39	23.77
	6H	22.22	23.46	22.63	23.83	24.22	22.02	23.26	22.43	23.63	24.02
	8H	22.34	23.53	22.77	23.92	24.32	22.15	23.33	22.58	23.72	24.12
	12H	22.42	23.55	22.85	23.93	24.36	22.24	23.37	22.67	23.75	24.18
4H	2H	20.57	21.91	20.97	22.26	22.64	20.44	21.78	20.84	22.13	22.51
	3H	22.11	23.23	22.52	23.63	24.03	21.94	23.06	22.35	23.46	23.86
	4H	22.71	23.71	23.14	24.13	24.56	22.53	23.54	22.97	23.95	24.39
	6H	23.14	24.02	23.60	24.46	24.92	22.97	23.85	23.43	24.29	24.75
	8H	23.31	24.13	23.78	24.58	25.04	23.15	23.97	23.61	24.41	24.88
	12H	23.43	24.16	23.91	24.64	25.11	23.28	24.01	23.76	24.49	24.96
8H	4H	22.91	23.73	23.37	24.17	24.64	22.76	23.58	23.22	24.02	24.48
	6H	23.46	24.14	23.96	24.63	25.11	23.31	23.99	23.80	24.48	24.95
	8H	23.71	24.32	24.22	24.83	25.32	23.56	24.17	24.07	24.68	25.17
	12H	23.89	24.43	24.40	24.92	25.48	23.75	24.30	24.26	24.79	25.35
12H	4H	22.93	23.66	23.41	24.14	24.61	22.78	23.51	23.26	23.99	24.46
	6H	23.50	24.11	24.01	24.62	25.11	23.35	23.96	23.86	24.47	24.96
	8H	23.81	24.35	24.31	24.84	25.40	23.66	24.20	24.17	24.69	25.26