

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: P1036250

Luminaire Tested: SQ4R-PC3-100D-B40-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

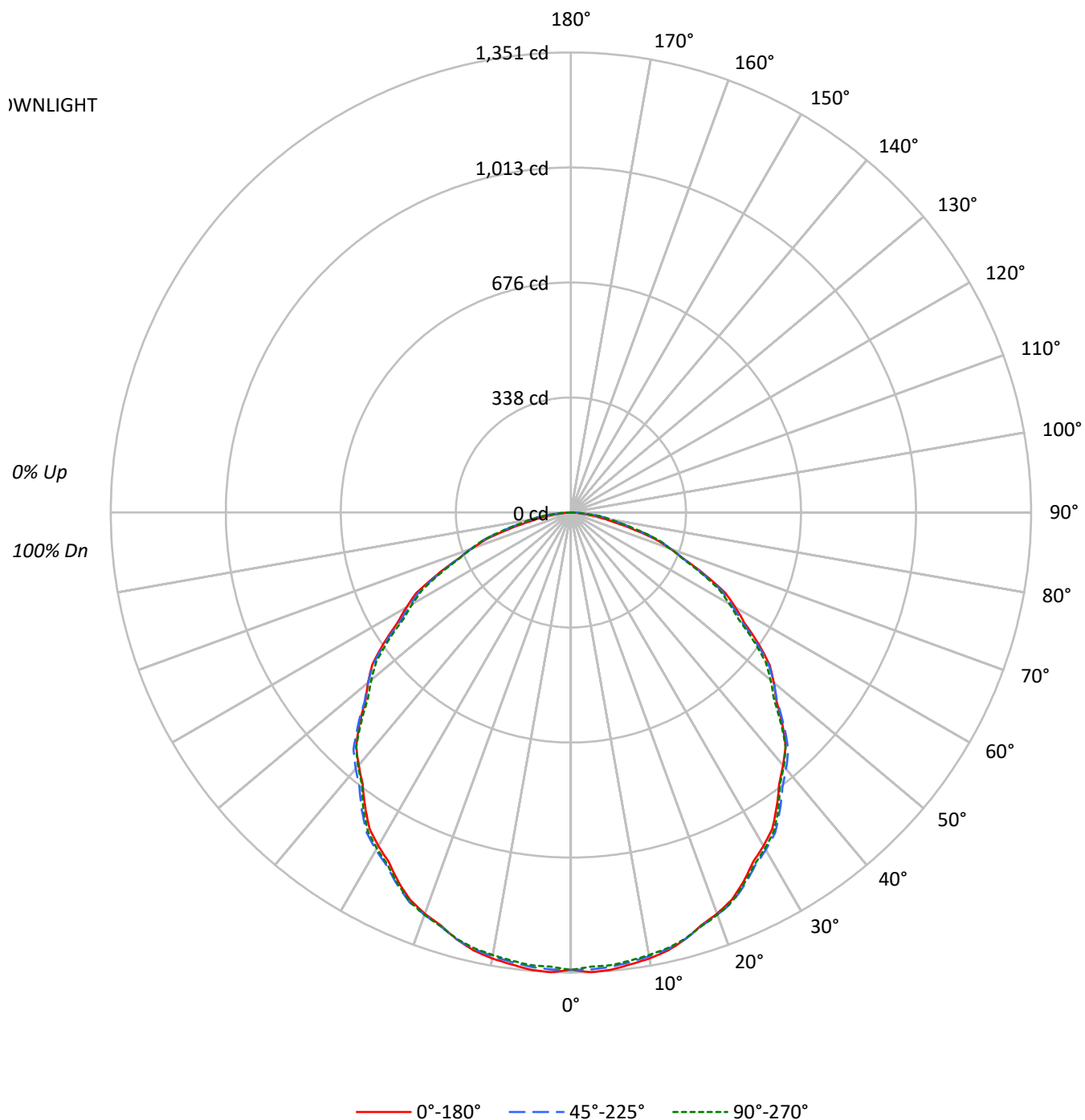
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
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

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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	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12392	12392	12392
5°	12487	12406	12360
10°	12457	12398	12363
15°	12391	12391	12378
20°	12310	12346	12346
25°	12194	12281	12243
30°	12044	12190	12136
35°	11866	12047	11963
40°	11668	11833	11714
45°	11459	11539	11359
50°	11158	11158	10980
55°	10805	10663	10505
60°	10282	10077	9913
65°	9501	9315	9230
70°	8322	8387	8357
75°	6695	7408	7450
80°	4761	6275	6344
85°	2901	5261	5261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11539 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.5
10°-20°	364.8	10.0
20°-30°	552.5	15.1
30°-40°	662.3	18.1
40°-50°	675.3	18.4
50°-60°	589.5	16.1
60°-70°	422.0	11.5
70°-80°	217.4	5.9
80°-90°	55.0	1.5
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°	1044.4	28.5
0°-40°	1706.7	46.6
0°-60°	2971.6	81.1
0°-90°	3666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1348	1335	1340	1336	1335	128
15°	1297	1286	1297	1297	1296	366
25°	1198	1189	1206	1203	1203	551
35°	1054	1051	1070	1062	1062	659
45°	878	876	884	873	871	676
55°	672	663	663	653	653	599
65°	435	426	427	423	423	430
75°	188	196	208	209	209	203
85°	27	42	50	51	50	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1351.3	1339.5	1343.1	1340.1	1335.2
5°	1348.3	1334.8	1339.5	1335.7	1334.6
7.5°	1338.5	1325.1	1331.4	1328.8	1327.5
10°	1329.7	1316.1	1323.4	1320.8	1319.6
12.5°	1317.6	1305.2	1313.4	1310.9	1310.6
15°	1297.3	1286.3	1297.3	1297.3	1295.9
17.5°	1271.5	1261.7	1273.3	1274.1	1273.3
20°	1253.8	1242.8	1257.4	1256.1	1257.4
22.5°	1231.9	1222.9	1238.6	1235.3	1236.6
25°	1197.8	1189.2	1206.4	1202.7	1202.7
27.5°	1157.4	1151.2	1170.1	1166.1	1166.1
30°	1130.5	1124.5	1144.2	1139.2	1139.2
32.5°	1100.7	1096.6	1115.5	1109.5	1109.5
35°	1053.5	1050.9	1069.6	1062.1	1062.1
37.5°	1004.6	1002.5	1019.5	1010.4	1007.4
40°	968.8	967.7	982.5	972.6	972.6
42.5°	933.0	931.8	944.8	932.8	932.8
45°	878.2	875.5	884.4	873.0	870.6
47.5°	818.1	815.8	821.1	808.9	807.6
50°	777.4	774.8	777.4	766.0	765.0
52.5°	735.5	731.1	731.4	720.3	720.1
55°	671.7	663.1	662.9	653.1	653.1
57.5°	603.9	592.8	593.8	585.3	584.0
60°	557.2	545.0	546.1	538.5	537.2
62.5°	511.3	497.4	500.1	491.8	491.6
65°	435.2	425.5	426.7	422.8	422.8
67.5°	362.1	353.1	359.7	356.7	356.5
70°	308.5	302.3	310.9	310.9	309.8
72.5°	258.7	258.5	269.0	269.0	269.9
75°	187.8	196.3	207.8	209.0	209.0
77.5°	125.4	140.4	153.1	153.5	153.3
80°	89.6	106.6	118.1	120.7	119.4
82.5°	60.7	78.7	88.3	90.7	89.6
85°	27.4	42.1	49.7	51.1	49.7
87.5°	7.9	16.8	20.0	20.0	18.0
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	20.21	21.83	20.58	22.14	22.46	20.10	21.71	20.46	22.03	22.34
	3H	21.76	23.21	22.13	23.54	23.90	21.70	23.16	22.08	23.48	23.84
	4H	22.27	23.64	22.66	23.98	24.36	22.30	23.67	22.70	24.02	24.39
	6H	22.50	23.77	22.91	24.14	24.53	22.67	23.93	23.08	24.30	24.69
	8H	22.57	23.78	22.99	24.17	24.57	22.80	24.01	23.23	24.40	24.80
	12H	22.59	23.75	23.02	24.13	24.56	22.89	24.05	23.32	24.43	24.86
4H	2H	20.81	22.18	21.21	22.53	22.90	20.72	22.09	21.11	22.43	22.81
	3H	22.56	23.71	22.97	24.11	24.51	22.54	23.68	22.95	24.08	24.48
	4H	23.17	24.20	23.60	24.62	25.05	23.24	24.27	23.67	24.69	25.12
	6H	23.51	24.41	23.97	24.85	25.31	23.72	24.62	24.17	25.06	25.52
	8H	23.61	24.46	24.07	24.90	25.36	23.90	24.75	24.36	25.19	25.65
	12H	23.66	24.42	24.14	24.90	25.37	24.03	24.79	24.51	25.26	25.73
8H	4H	23.43	24.27	23.89	24.71	25.18	23.49	24.33	23.95	24.77	25.24
	6H	23.87	24.57	24.37	25.06	25.53	24.08	24.78	24.57	25.27	25.74
	8H	24.04	24.66	24.55	25.17	25.66	24.34	24.97	24.85	25.47	25.96
	12H	24.14	24.70	24.65	25.19	25.75	24.53	25.09	25.04	25.58	26.14
12H	4H	23.45	24.21	23.93	24.68	25.15	23.50	24.26	23.99	24.74	25.21
	6H	23.92	24.55	24.43	25.05	25.54	24.12	24.74	24.63	25.25	25.74
	8H	24.14	24.70	24.65	25.19	25.75	24.43	24.99	24.94	25.48	26.04