

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: P1036313

Luminaire Tested: SQ4R-PR1-100D-B35-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564154)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

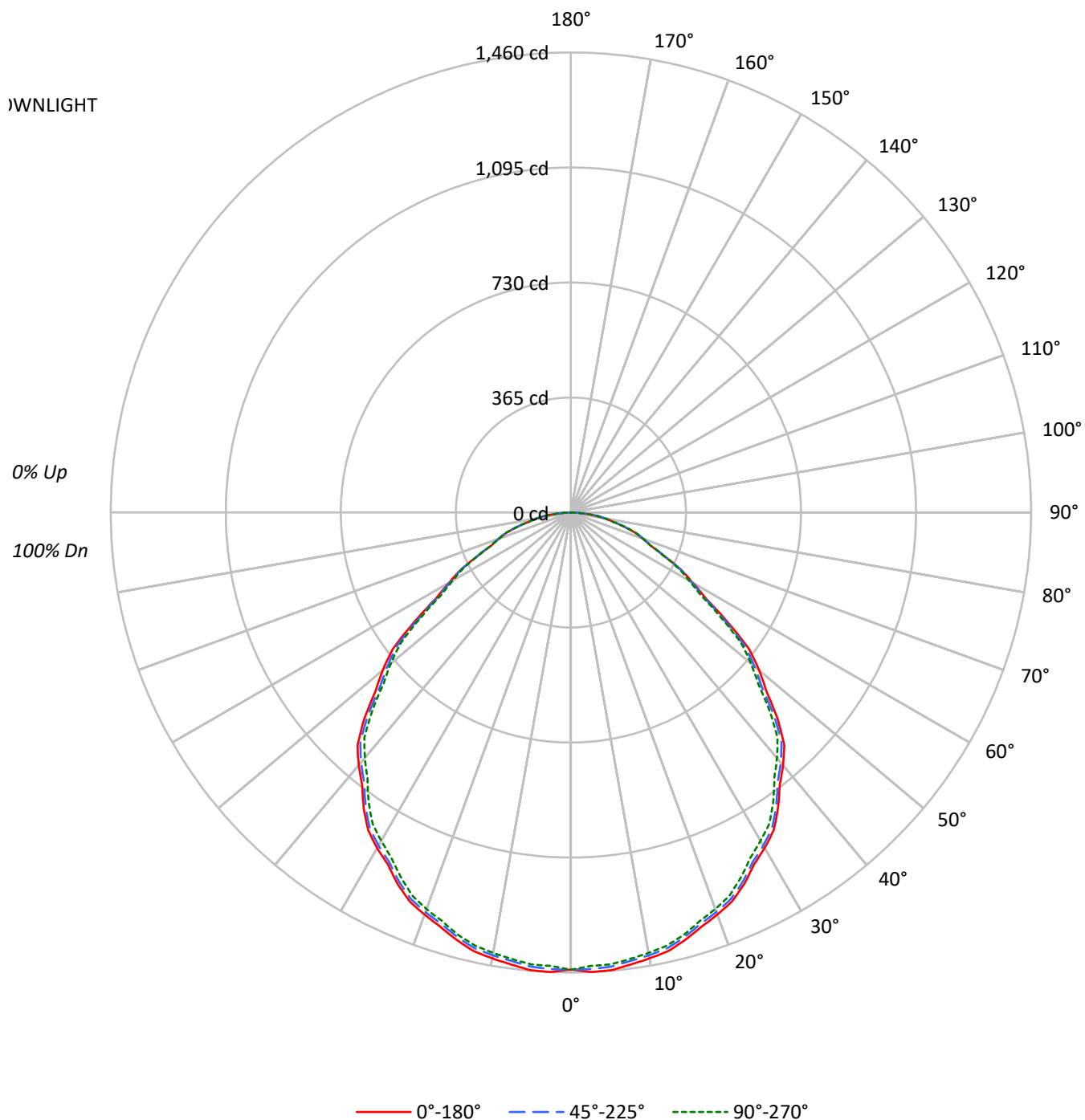
Lumens per Lamp: N/A
Luminaire Lumens: 3626.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59
6	72	59	51	45	70	58	50	44	57	49	44		55	49	44		53
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49
8	63	49	41	35	61	49	41	35	47	40	35		46	40	35		45
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13384	13384	13384
5°	13505	13401	13332
10°	13461	13368	13298
15°	13404	13320	13247
20°	13335	13249	13152
25°	13241	13154	13000
30°	13098	13007	12819
35°	12906	12792	12610
40°	12610	12475	12249
45°	12099	11884	11641
50°	11191	10922	10706
55°	9767	9548	9347
60°	8230	8163	8001
65°	7119	7147	7091
70°	6536	6571	6571
75°	6277	6277	6327
80°	5908	5972	5908
85°	4764	5293	5293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.8
10°-20°	392.5	10.8
20°-30°	592.0	16.3
30°-40°	705.4	19.5
40°-50°	695.4	19.2
50°-60°	531.5	14.7
60°-70°	328.9	9.1
70°-80°	186.8	5.2
80°-90°	56.8	1.6
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°	1121.7	30.9
0°-40°	1827.1	50.4
0°-60°	3054.0	84.2
0°-90°	3626.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3626.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1458	1442	1447	1442	1440	138
15°	1403	1389	1394	1390	1387	396
25°	1301	1285	1292	1278	1277	599
35°	1146	1132	1136	1121	1120	715
45°	927	915	911	894	892	710
55°	607	598	594	584	581	544
65°	326	324	327	325	325	330
75°	176	176	176	178	178	186
85°	45	47	50	50	50	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.6	1450.6	1450.6	1450.6	1450.6
2.5°	1459.7	1447.0	1450.6	1447.6	1440.7
5°	1458.2	1442.2	1447.0	1441.8	1439.5
7.5°	1447.0	1431.3	1436.0	1430.9	1429.6
10°	1436.8	1422.2	1426.9	1422.0	1419.4
12.5°	1425.9	1410.4	1416.0	1409.9	1407.6
15°	1403.3	1388.6	1394.5	1389.5	1386.9
17.5°	1378.3	1362.6	1368.6	1362.8	1359.5
20°	1358.2	1343.6	1349.4	1340.8	1339.5
22.5°	1336.2	1321.7	1327.4	1315.8	1315.6
25°	1300.7	1284.8	1292.1	1278.3	1277.0
27.5°	1258.5	1243.9	1249.7	1235.7	1234.4
30°	1229.5	1214.8	1220.9	1205.8	1203.3
32.5°	1196.5	1182.9	1187.9	1172.8	1171.2
35°	1145.9	1132.3	1135.7	1120.8	1119.6
37.5°	1088.2	1075.8	1077.8	1061.3	1060.2
40°	1047.0	1034.9	1035.8	1018.4	1017.0
42.5°	1002.2	989.9	988.8	971.4	970.2
45°	927.3	915.0	910.8	894.5	892.2
47.5°	841.8	829.4	821.9	808.6	806.8
50°	779.7	767.4	760.9	749.6	745.9
52.5°	712.7	700.5	695.1	684.7	681.1
55°	607.2	597.5	593.6	583.5	581.1
57.5°	507.0	500.5	499.3	489.6	488.5
60°	446.0	442.4	442.4	433.6	433.6
62.5°	394.2	391.3	393.3	387.5	386.6
65°	326.1	323.7	327.4	324.8	324.8
67.5°	272.4	272.4	274.6	273.5	273.5
70°	242.3	242.3	243.6	243.6	243.6
72.5°	215.4	214.5	217.7	217.5	216.7
75°	176.1	176.1	176.1	177.5	177.5
77.5°	137.2	137.4	138.5	138.3	137.2
80°	111.2	112.4	112.4	111.2	111.2
82.5°	85.3	86.4	86.4	86.1	85.3
85°	45.0	47.4	50.0	50.0	50.0
87.5°	12.9	16.8	20.1	20.1	19.0
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	19.11	20.68	19.48	20.99	21.31	18.94	20.51	19.31	20.82	21.13
	3H	20.45	21.85	20.83	22.18	22.54	20.35	21.75	20.73	22.08	22.44
	4H	21.05	22.37	21.45	22.72	23.09	20.98	22.30	21.38	22.65	23.02
	6H	21.50	22.72	21.91	23.08	23.47	21.44	22.66	21.85	23.02	23.41
	8H	21.68	22.84	22.11	23.23	23.63	21.62	22.79	22.05	23.17	23.58
	12H	21.79	22.90	22.22	23.29	23.71	21.75	22.86	22.18	23.24	23.67
4H	2H	19.59	20.91	19.99	21.26	21.63	19.45	20.77	19.85	21.11	21.49
	3H	21.19	22.29	21.60	22.68	23.09	21.12	22.21	21.53	22.61	23.01
	4H	21.93	22.91	22.36	23.33	23.77	21.88	22.87	22.31	23.28	23.72
	6H	22.51	23.38	22.97	23.82	24.28	22.48	23.34	22.93	23.78	24.24
	8H	22.76	23.56	23.22	24.01	24.47	22.72	23.53	23.18	23.97	24.44
	12H	22.91	23.64	23.40	24.11	24.59	22.90	23.62	23.38	24.10	24.57
8H	4H	22.20	23.01	22.66	23.45	23.92	22.16	22.97	22.62	23.41	23.88
	6H	22.93	23.60	23.42	24.09	24.56	22.89	23.56	23.39	24.05	24.53
	8H	23.26	23.86	23.77	24.37	24.86	23.23	23.83	23.74	24.34	24.83
	12H	23.50	24.03	24.00	24.52	25.09	23.49	24.02	24.00	24.52	25.08
12H	4H	22.23	22.95	22.71	23.43	23.90	22.19	22.91	22.67	23.39	23.86
	6H	22.99	23.59	23.50	24.10	24.59	22.96	23.56	23.47	24.07	24.56
	8H	23.39	23.92	23.90	24.41	24.98	23.36	23.89	23.87	24.38	24.95