

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: P1036276

Luminaire Tested: SQ4R-PP3-100D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036276
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_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

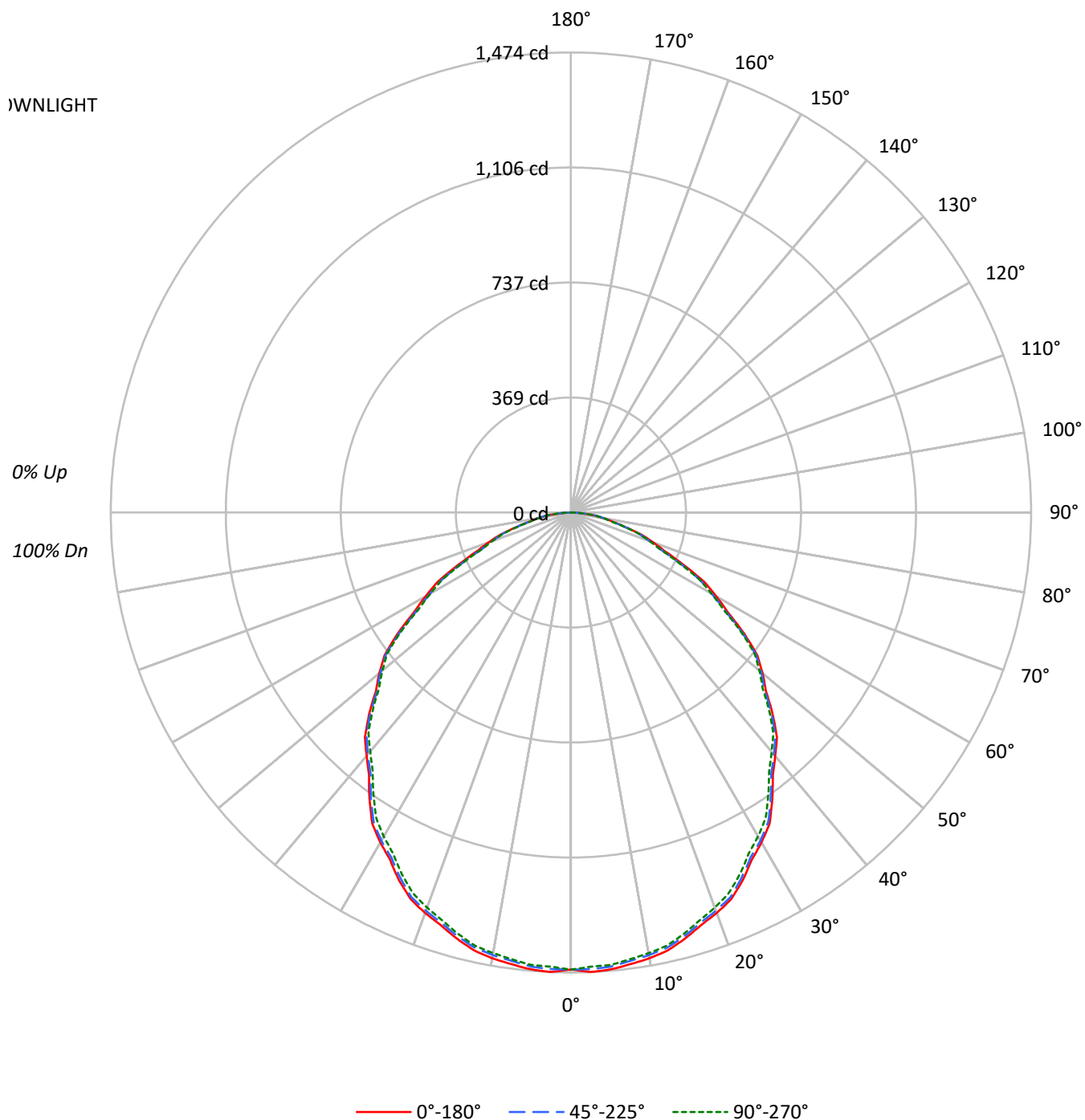
Lumens per Lamp: N/A
Luminaire Lumens: 3748.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	13511	13511	13511
5°	13610	13526	13479
10°	13587	13492	13432
15°	13497	13424	13349
20°	13407	13331	13231
25°	13248	13158	13027
30°	13004	12935	12770
35°	12663	12576	12416
40°	12257	12180	12042
45°	11924	11841	11722
50°	11494	11421	11310
55°	10899	10756	10674
60°	9922	9640	9592
65°	8743	8377	8348
70°	7545	7235	7235
75°	6499	6406	6310
80°	5728	5797	5653
85°	4478	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.7
10°-20°	395.4	10.5
20°-30°	592.2	15.8
30°-40°	694.6	18.5
40°-50°	696.8	18.6
50°-60°	594.5	15.9
60°-70°	387.7	10.3
70°-80°	194.5	5.2
80°-90°	53.8	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°	1126.1	30.0
0°-40°	1820.7	48.6
0°-60°	3112.0	83.0
0°-90°	3748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1470	1456	1460	1455	1455	140
15°	1413	1399	1405	1400	1398	399
25°	1301	1286	1292	1281	1280	598
35°	1124	1113	1117	1104	1102	702
45°	914	908	908	898	898	704
55°	678	675	669	665	664	602
65°	400	393	384	381	382	400
75°	182	182	180	178	177	198
85°	42	46	46	46	46	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1473.5	1461.6	1464.4	1462.2	1456.3
5°	1469.5	1455.8	1460.5	1455.4	1455.4
7.5°	1459.6	1444.5	1449.2	1444.1	1443.9
10°	1450.3	1435.2	1440.1	1434.8	1433.7
12.5°	1437.0	1422.0	1427.7	1421.5	1421.3
15°	1413.1	1399.2	1405.4	1400.1	1397.6
17.5°	1386.1	1371.1	1378.4	1371.3	1370.2
20°	1365.5	1350.5	1357.8	1347.6	1347.6
22.5°	1341.0	1325.9	1334.3	1320.8	1320.8
25°	1301.4	1286.3	1292.5	1280.8	1279.7
27.5°	1254.4	1239.6	1246.0	1232.8	1232.5
30°	1220.6	1206.7	1214.2	1200.0	1198.7
32.5°	1183.6	1170.8	1176.1	1162.0	1160.6
35°	1124.3	1113.0	1116.6	1103.8	1102.4
37.5°	1061.9	1050.4	1054.4	1043.3	1042.9
40°	1017.7	1010.2	1011.3	1002.2	999.8
42.5°	976.7	968.1	969.2	960.1	959.7
45°	913.9	907.5	907.5	898.4	898.4
47.5°	847.1	842.2	840.9	833.3	833.1
50°	800.8	797.1	795.7	789.3	788.0
52.5°	752.6	750.8	746.4	741.1	740.9
55°	677.6	675.1	668.7	664.7	663.6
57.5°	596.4	591.3	584.0	578.4	579.3
60°	537.7	532.6	522.4	519.8	519.8
62.5°	481.3	475.3	464.9	461.4	463.4
65°	400.5	393.0	383.7	381.3	382.4
67.5°	327.1	320.2	310.2	310.2	309.4
70°	279.7	275.9	268.2	268.2	268.2
72.5°	237.7	235.9	230.4	230.1	229.2
75°	182.3	182.3	179.7	178.4	177.0
77.5°	136.5	137.0	135.9	134.5	132.1
80°	107.8	110.4	109.1	107.8	106.4
82.5°	81.2	83.6	83.4	81.2	80.8
85°	42.3	46.0	46.2	46.2	46.2
87.5°	11.3	15.3	16.4	16.4	17.5
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	20.13	21.72	20.50	22.03	22.35	19.97	21.55	20.33	21.87	22.18
	3H	21.45	22.87	21.82	23.20	23.56	21.24	22.67	21.62	23.00	23.36
	4H	21.93	23.27	22.33	23.62	24.00	21.73	23.07	22.13	23.42	23.79
	6H	22.25	23.49	22.66	23.85	24.24	22.05	23.29	22.46	23.65	24.05
	8H	22.37	23.55	22.80	23.94	24.34	22.18	23.36	22.60	23.75	24.15
	12H	22.44	23.57	22.87	23.96	24.38	22.26	23.39	22.69	23.78	24.20
4H	2H	20.60	21.94	21.00	22.29	22.67	20.46	21.81	20.86	22.15	22.53
	3H	22.14	23.25	22.55	23.65	24.05	21.97	23.08	22.38	23.48	23.88
	4H	22.73	23.74	23.16	24.15	24.59	22.56	23.57	22.99	23.98	24.42
	6H	23.17	24.04	23.62	24.49	24.94	23.00	23.87	23.45	24.32	24.77
	8H	23.34	24.16	23.80	24.60	25.07	23.17	23.99	23.64	24.44	24.90
	12H	23.45	24.19	23.93	24.66	25.13	23.30	24.04	23.78	24.51	24.98
8H	4H	22.94	23.76	23.40	24.20	24.67	22.78	23.60	23.24	24.04	24.51
	6H	23.49	24.17	23.98	24.66	25.13	23.33	24.01	23.83	24.50	24.98
	8H	23.74	24.35	24.25	24.86	25.34	23.59	24.20	24.10	24.70	25.19
	12H	23.91	24.46	24.42	24.95	25.51	23.78	24.32	24.29	24.81	25.37
12H	4H	22.95	23.69	23.43	24.16	24.63	22.80	23.54	23.28	24.01	24.48
	6H	23.53	24.14	24.04	24.65	25.13	23.38	23.99	23.89	24.50	24.98
	8H	23.83	24.37	24.34	24.86	25.43	23.69	24.23	24.19	24.72	25.28

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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