

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: P1036285

Luminaire Tested: SQ4R-PP3-125D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036285
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-PP3-125D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

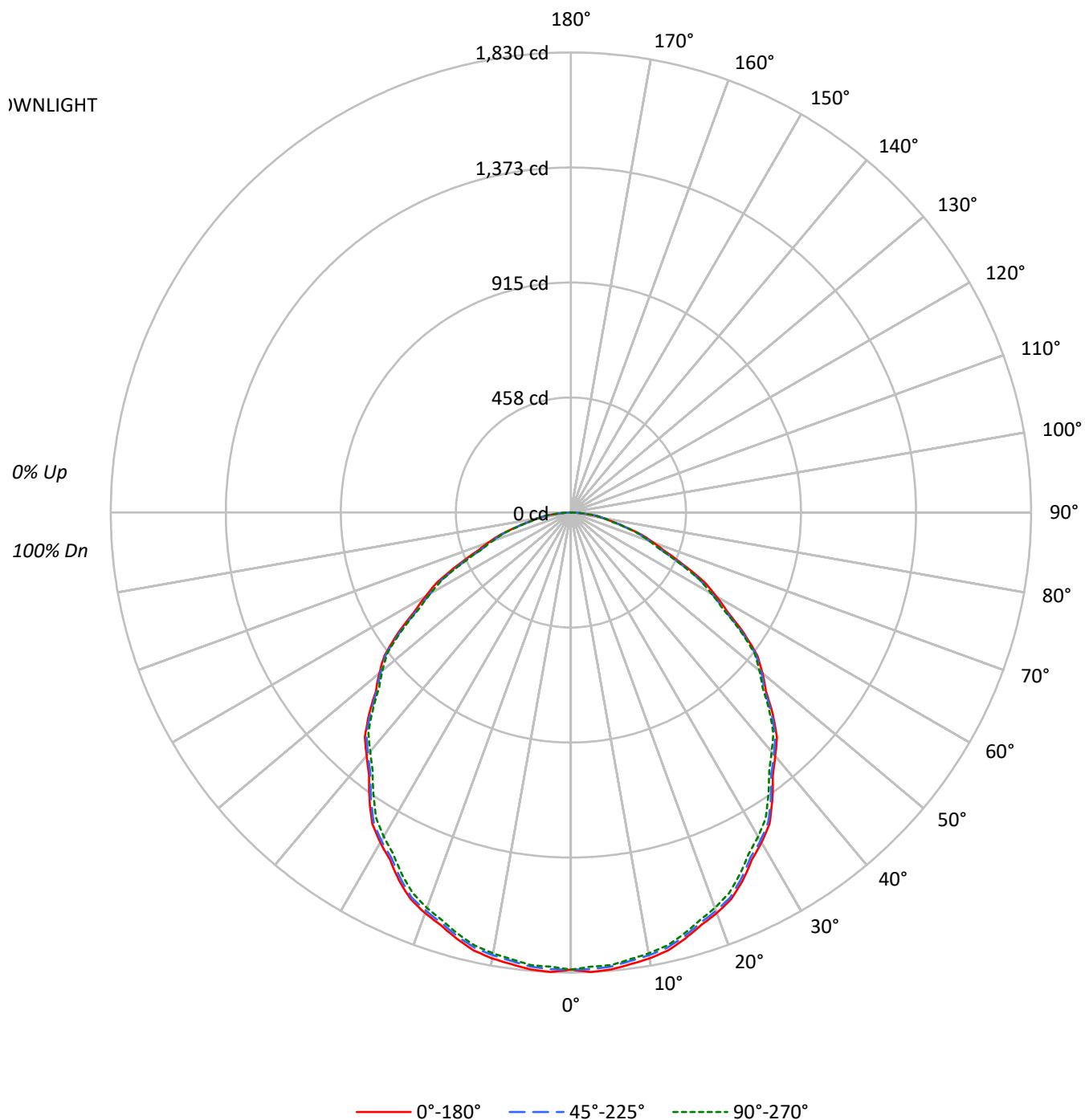
Lumens per Lamp: N/A
Luminaire Lumens: 4654.3 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.8
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°	16778	16778	16778
5°	16901	16797	16738
10°	16873	16754	16680
15°	16761	16670	16577
20°	16649	16555	16431
25°	16451	16340	16177
30°	16148	16063	15858
35°	15726	15617	15419
40°	15220	15125	14953
45°	14808	14704	14556
50°	14274	14183	14045
55°	13534	13357	13256
60°	12323	11972	11911
65°	10859	10400	10368
70°	9369	8986	8986
75°	8074	7953	7835
80°	7109	7199	7019
85°	5558	6076	6076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.7
10°-20°	491.0	10.5
20°-30°	735.4	15.8
30°-40°	862.6	18.5
40°-50°	865.3	18.6
50°-60°	738.2	15.9
60°-70°	481.4	10.3
70°-80°	241.5	5.2
80°-90°	66.8	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°	1398.4	30.0
0°-40°	2261.0	48.6
0°-60°	3864.5	83.0
0°-90°	4654.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4654.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1825	1808	1814	1807	1807	173
15°	1755	1738	1745	1739	1736	495
25°	1616	1597	1605	1590	1589	743
35°	1396	1382	1387	1371	1369	872
45°	1135	1127	1127	1116	1116	874
55°	841	838	830	825	824	748
65°	497	488	476	474	475	496
75°	226	226	223	222	220	246
85°	52	57	57	57	57	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.5	1818.5	1818.5	1818.5	1818.5
2.5°	1829.8	1815.0	1818.5	1815.8	1808.4
5°	1824.9	1807.8	1813.6	1807.3	1807.3
7.5°	1812.5	1793.8	1799.6	1793.3	1793.0
10°	1801.0	1782.3	1788.3	1781.7	1780.4
12.5°	1784.5	1765.8	1773.0	1765.2	1765.0
15°	1754.8	1737.5	1745.2	1738.6	1735.5
17.5°	1721.2	1702.6	1711.7	1702.9	1701.5
20°	1695.7	1677.1	1686.1	1673.5	1673.5
22.5°	1665.2	1646.6	1657.0	1640.2	1640.2
25°	1616.0	1597.3	1605.1	1590.5	1589.1
27.5°	1557.8	1539.4	1547.3	1530.8	1530.6
30°	1515.7	1498.4	1507.8	1490.2	1488.5
32.5°	1469.9	1453.9	1460.5	1442.9	1441.3
35°	1396.2	1382.2	1386.6	1370.7	1369.0
37.5°	1318.7	1304.5	1309.4	1295.6	1295.1
40°	1263.7	1254.4	1255.8	1244.5	1241.5
42.5°	1212.9	1202.2	1203.6	1192.3	1191.8
45°	1134.9	1126.9	1126.9	1115.6	1115.6
47.5°	1051.9	1045.8	1044.2	1034.9	1034.6
50°	994.5	989.8	988.1	980.2	978.5
52.5°	934.5	932.3	926.9	920.2	920.0
55°	841.4	838.4	830.4	825.4	824.1
57.5°	740.5	734.3	725.1	718.3	719.4
60°	667.8	661.4	648.8	645.5	645.5
62.5°	597.7	590.2	577.3	573.0	575.4
65°	497.4	488.1	476.4	473.5	474.9
67.5°	406.2	397.6	385.2	385.2	384.1
70°	347.3	342.6	333.1	333.1	333.1
72.5°	295.2	292.9	286.0	285.8	284.6
75°	226.5	226.5	223.1	221.5	219.8
77.5°	169.6	170.1	168.7	167.1	164.0
80°	133.8	137.1	135.5	133.8	132.1
82.5°	100.9	103.8	103.6	100.9	100.3
85°	52.5	57.2	57.4	57.4	57.4
87.5°	14.0	19.0	20.4	20.4	21.7
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	20.88	22.47	21.25	22.78	23.10	20.72	22.31	21.09	22.62	22.94
	3H	22.20	23.62	22.57	23.95	24.31	22.00	23.42	22.37	23.75	24.11
	4H	22.68	24.02	23.08	24.37	24.75	22.48	23.82	22.88	24.17	24.55
	6H	23.00	24.24	23.41	24.61	25.00	22.80	24.04	23.21	24.41	24.80
	8H	23.12	24.31	23.55	24.70	25.10	22.93	24.11	23.35	24.50	24.90
	12H	23.19	24.33	23.62	24.71	25.14	23.01	24.15	23.44	24.53	24.96
4H	2H	21.35	22.69	21.75	23.04	23.42	21.22	22.56	21.62	22.91	23.28
	3H	22.89	24.00	23.30	24.40	24.80	22.72	23.83	23.13	24.23	24.63
	4H	23.48	24.49	23.92	24.90	25.34	23.31	24.32	23.74	24.73	25.17
	6H	23.92	24.80	24.37	25.24	25.70	23.75	24.63	24.20	25.07	25.52
	8H	24.09	24.91	24.55	25.36	25.82	23.93	24.75	24.39	25.19	25.66
	12H	24.20	24.94	24.69	25.42	25.89	24.05	24.79	24.53	25.26	25.73
8H	4H	23.69	24.51	24.15	24.95	25.42	23.53	24.35	23.99	24.80	25.26
	6H	24.24	24.92	24.73	25.41	25.88	24.09	24.77	24.58	25.25	25.73
	8H	24.49	25.10	25.00	25.61	26.09	24.34	24.95	24.85	25.46	25.94
	12H	24.67	25.21	25.18	25.70	26.26	24.53	25.07	25.04	25.56	26.13
12H	4H	23.71	24.44	24.19	24.92	25.39	23.55	24.29	24.03	24.76	25.23
	6H	24.28	24.89	24.79	25.40	25.88	24.13	24.74	24.64	25.25	25.74
	8H	24.59	25.13	25.09	25.62	26.18	24.44	24.98	24.95	25.47	26.03