

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: P1036252

Luminaire Tested: SQ4R-PC3-125D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036252
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-PC3-125D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

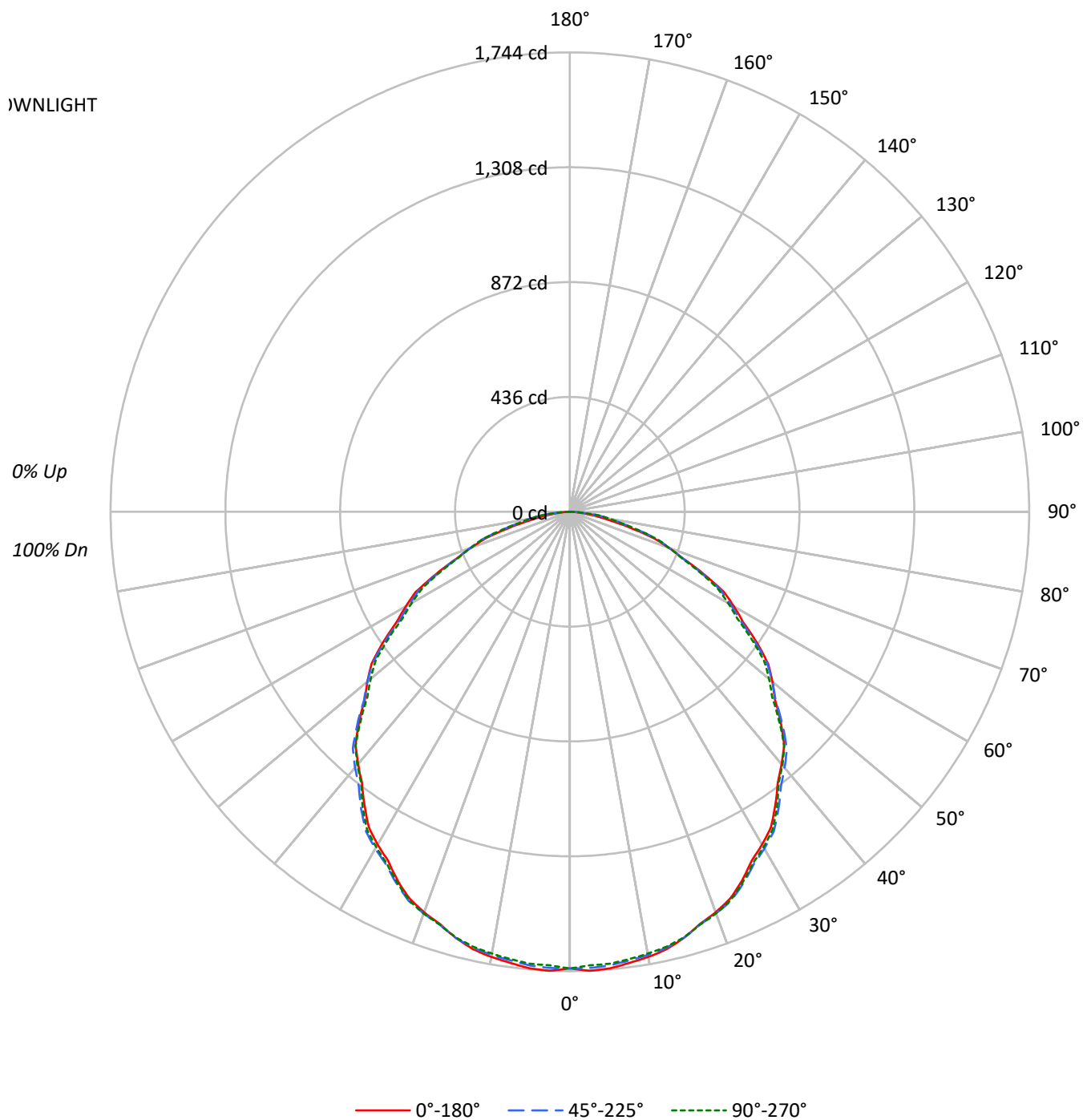
Lumens per Lamp: N/A
Luminaire Lumens: 4732.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	15995	15995	15995
5°	16119	16013	15954
10°	16079	16004	15957
15°	15994	15994	15978
20°	15889	15935	15935
25°	15739	15852	15804
30°	15546	15734	15666
35°	15317	15550	15441
40°	15061	15275	15121
45°	14790	14894	14663
50°	14402	14402	14173
55°	13946	13764	13558
60°	13271	13005	12797
65°	12265	12022	11913
70°	10742	10825	10788
75°	8641	9561	9618
80°	6147	8103	8188
85°	3747	6796	6796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 14894 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.5
10°-20°	470.9	10.0
20°-30°	713.1	15.1
30°-40°	854.9	18.1
40°-50°	871.7	18.4
50°-60°	760.9	16.1
60°-70°	544.8	11.5
70°-80°	280.6	5.9
80°-90°	71.0	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°	1348.1	28.5
0°-40°	2203.0	46.6
0°-60°	3835.6	81.1
0°-90°	4732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1740	1723	1729	1724	1723	165
15°	1674	1660	1674	1674	1673	472
25°	1546	1535	1557	1552	1552	712
35°	1360	1356	1381	1371	1371	850
45°	1134	1130	1142	1127	1124	872
55°	867	856	856	843	843	773
65°	562	549	551	546	546	556
75°	242	254	268	270	270	262
85°	35	54	64	66	64	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.7	1733.7	1733.7	1733.7	1733.7
2.5°	1744.2	1729.0	1733.7	1729.8	1723.5
5°	1740.4	1722.9	1729.0	1724.0	1722.6
7.5°	1727.6	1710.5	1718.5	1715.2	1713.5
10°	1716.3	1698.8	1708.3	1704.9	1703.3
12.5°	1700.8	1684.7	1695.3	1692.2	1691.7
15°	1674.5	1660.4	1674.5	1674.5	1672.8
17.5°	1641.3	1628.6	1643.5	1644.6	1643.5
20°	1618.3	1604.2	1623.0	1621.4	1623.0
22.5°	1590.1	1578.5	1598.7	1594.5	1596.2
25°	1546.1	1535.0	1557.2	1552.5	1552.5
27.5°	1494.1	1486.0	1510.4	1505.1	1505.1
30°	1459.2	1451.5	1476.9	1470.5	1470.5
32.5°	1420.7	1415.5	1439.8	1432.1	1432.1
35°	1359.9	1356.5	1380.6	1370.9	1370.9
37.5°	1296.8	1294.0	1315.9	1304.2	1300.4
40°	1250.5	1249.2	1268.3	1255.5	1255.5
42.5°	1204.3	1202.7	1219.6	1204.1	1204.1
45°	1133.5	1130.2	1141.5	1126.8	1123.8
47.5°	1056.0	1053.0	1059.9	1044.1	1042.4
50°	1003.4	1000.1	1003.4	988.8	987.4
52.5°	949.5	943.7	944.2	929.8	929.5
55°	867.0	855.9	855.7	842.9	842.9
57.5°	779.5	765.2	766.5	755.5	753.8
60°	719.2	703.4	704.8	695.1	693.5
62.5°	660.0	642.0	645.6	634.8	634.5
65°	561.8	549.3	550.7	545.7	545.7
67.5°	467.4	455.8	464.4	460.5	460.2
70°	398.2	390.2	401.3	401.3	399.9
72.5°	334.0	333.7	347.3	347.3	348.4
75°	242.4	253.5	268.2	269.8	269.8
77.5°	161.9	181.3	197.6	198.1	197.9
80°	115.7	137.5	152.5	155.8	154.1
82.5°	78.3	101.6	114.0	117.1	115.7
85°	35.4	54.2	64.2	65.9	64.2
87.5°	10.2	21.6	25.7	25.7	23.2
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	21.10	22.71	21.46	23.03	23.34	20.98	22.60	21.35	22.91	23.23
	3H	22.64	24.10	23.02	24.43	24.79	22.59	24.04	22.96	24.37	24.73
	4H	23.15	24.52	23.55	24.87	25.25	23.19	24.56	23.58	24.90	25.28
	6H	23.39	24.66	23.80	25.02	25.41	23.55	24.82	23.96	25.19	25.58
	8H	23.45	24.67	23.88	25.05	25.45	23.69	24.90	24.12	25.29	25.69
	12H	23.48	24.64	23.91	25.02	25.45	23.78	24.94	24.21	25.32	25.75
4H	2H	21.69	23.06	22.09	23.41	23.79	21.60	22.97	22.00	23.32	23.70
	3H	23.45	24.59	23.86	24.99	25.39	23.43	24.57	23.83	24.97	25.37
	4H	24.06	25.09	24.49	25.51	25.94	24.13	25.16	24.56	25.58	26.01
	6H	24.40	25.30	24.85	25.74	26.20	24.61	25.51	25.06	25.95	26.40
	8H	24.50	25.34	24.96	25.78	26.25	24.79	25.63	25.25	26.08	26.54
	12H	24.55	25.31	25.03	25.78	26.25	24.92	25.67	25.40	26.15	26.62
8H	4H	24.31	25.16	24.77	25.60	26.06	24.38	25.22	24.84	25.66	26.13
	6H	24.76	25.46	25.25	25.95	26.42	24.97	25.66	25.46	26.15	26.63
	8H	24.93	25.55	25.44	26.06	26.55	25.23	25.85	25.74	26.36	26.85
	12H	25.03	25.58	25.53	26.07	26.63	25.42	25.98	25.93	26.47	27.03
12H	4H	24.34	25.09	24.82	25.57	26.04	24.39	25.15	24.87	25.62	26.09
	6H	24.81	25.43	25.32	25.94	26.43	25.00	25.63	25.51	26.14	26.62
	8H	25.03	25.58	25.54	26.07	26.63	25.32	25.87	25.83	26.36	26.93