

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: P1036316

Luminaire Tested: SQ4R-PR1-125D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036316
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-PR1-125D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

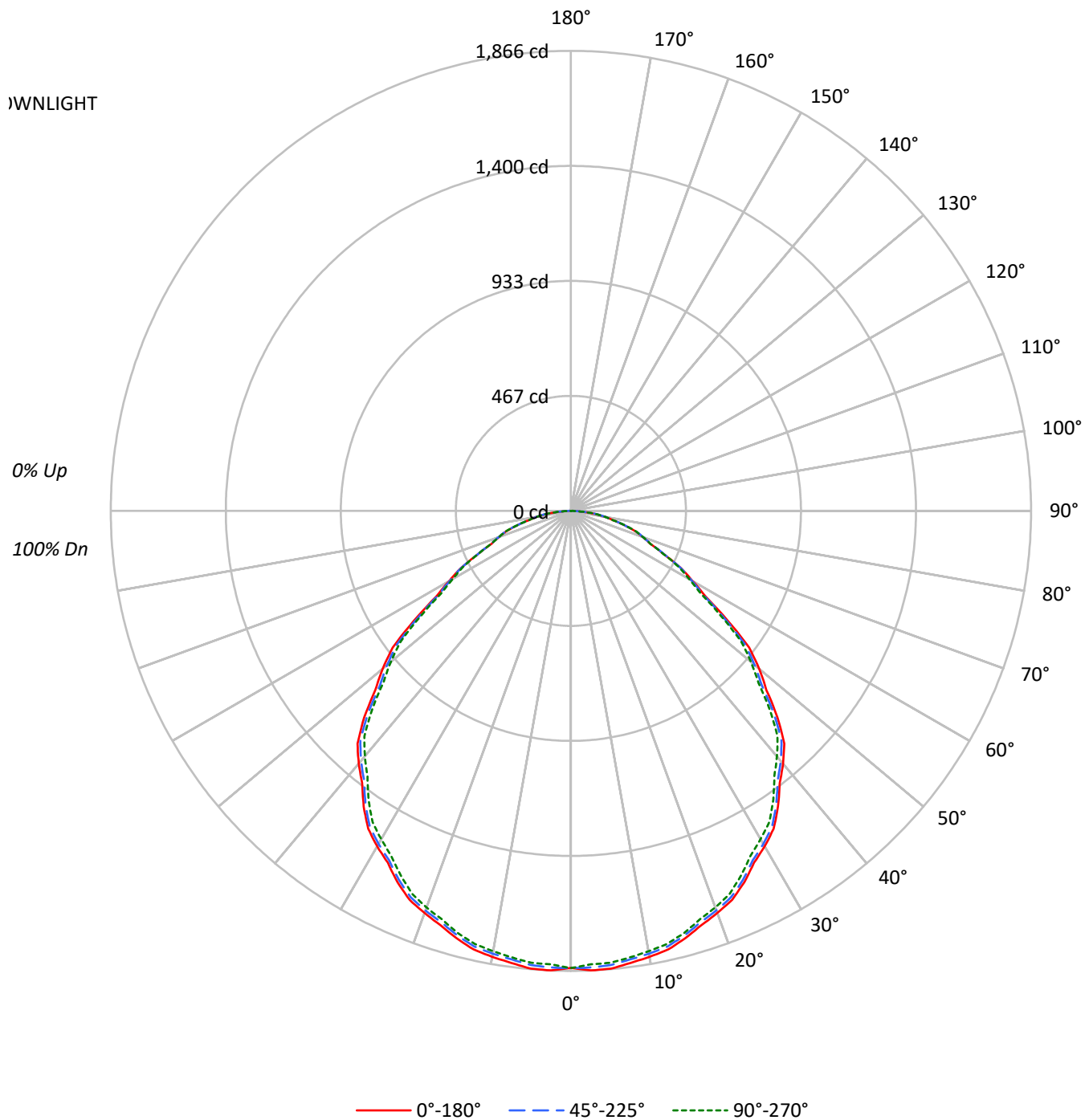
Lumens per Lamp: N/A
Luminaire Lumens: 4635.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1036316

CATALOG NUMBER: SQ4R-PR1-125D-B2750-1D-UNV-W2A_2700K

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17105	17105	17105
5°	17261	17127	17038
10°	17204	17085	16995
15°	17131	17023	16930
20°	17044	16933	16809
25°	16923	16811	16615
30°	16740	16623	16385
35°	16495	16350	16116
40°	16116	15944	15656
45°	15463	15190	14877
50°	14303	13960	13683
55°	12482	12204	11947
60°	10520	10433	10224
65°	9099	9134	9062
70°	8354	8398	8398
75°	8028	8028	8085
80°	7545	7635	7545
85°	6087	6764	6764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15463 cd/sqm

TEST NUMBER: P1036316

CATALOG NUMBER: SQ4R-PR1-125D-B2750-1D-UNV-W2A_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	3.8
10°-20°	501.6	10.8
20°-30°	756.6	16.3
30°-40°	901.5	19.5
40°-50°	888.8	19.2
50°-60°	679.3	14.7
60°-70°	420.3	9.1
70°-80°	238.8	5.2
80°-90°	72.6	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°	1433.6	30.9
0°-40°	2335.2	50.4
0°-60°	3903.3	84.2
0°-90°	4635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1864	1843	1849	1843	1840	177
15°	1794	1775	1782	1776	1772	506
25°	1662	1642	1651	1634	1632	765
35°	1464	1447	1452	1433	1431	914
45°	1185	1169	1164	1143	1140	908
55°	776	764	759	746	743	695
65°	417	414	418	415	415	422
75°	225	225	225	227	227	238
85°	58	61	64	64	64	69
90°	0	0	0	0	0	

TEST NUMBER: P1036316

CATALOG NUMBER: SQ4R-PR1-125D-B2750-1D-UNV-W2A_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.0	1854.0	1854.0	1854.0	1854.0
2.5°	1865.6	1849.3	1854.0	1850.2	1841.4
5°	1863.7	1843.3	1849.3	1842.7	1839.7
7.5°	1849.3	1829.3	1835.3	1828.7	1827.0
10°	1836.4	1817.7	1823.7	1817.4	1814.1
12.5°	1822.4	1802.5	1809.7	1802.0	1799.0
15°	1793.5	1774.7	1782.2	1775.8	1772.5
17.5°	1761.5	1741.4	1749.1	1741.7	1737.6
20°	1735.9	1717.2	1724.6	1713.6	1712.0
22.5°	1707.9	1689.1	1696.6	1681.7	1681.4
25°	1662.4	1642.1	1651.4	1633.8	1632.1
27.5°	1608.5	1589.8	1597.2	1579.3	1577.6
30°	1571.3	1552.6	1560.3	1541.0	1538.0
32.5°	1529.2	1511.9	1518.2	1498.9	1497.0
35°	1464.5	1447.2	1451.6	1432.6	1430.9
37.5°	1390.7	1375.0	1377.5	1356.3	1354.9
40°	1338.1	1322.7	1323.8	1301.5	1299.9
42.5°	1280.9	1265.2	1263.8	1241.5	1239.9
45°	1185.1	1169.4	1164.2	1143.2	1140.2
47.5°	1075.8	1060.1	1050.5	1033.4	1031.2
50°	996.5	980.8	972.6	958.0	953.3
52.5°	910.9	895.2	888.3	875.1	870.4
55°	776.0	763.6	758.7	745.7	742.7
57.5°	648.0	639.8	638.1	625.7	624.3
60°	570.1	565.4	565.4	554.1	554.1
62.5°	503.8	500.2	502.7	495.2	494.1
65°	416.8	413.7	418.4	415.1	415.1
67.5°	348.2	348.2	351.0	349.6	349.6
70°	309.7	309.7	311.3	311.3	311.3
72.5°	275.3	274.2	278.3	278.0	276.9
75°	225.2	225.2	225.2	226.8	226.8
77.5°	175.4	175.6	177.0	176.7	175.4
80°	142.0	143.7	143.7	142.0	142.0
82.5°	109.0	110.4	110.4	110.1	109.0
85°	57.5	60.6	63.9	63.9	63.9
87.5°	16.5	21.5	25.6	25.6	24.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036316

CATALOG NUMBER: SQ4R-PR1-125D-B2750-1D-UNV-W2A_2700K

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	19.97	21.53	20.33	21.84	22.16	19.80	21.36	20.16	21.67	21.99
	3H	21.30	22.71	21.68	23.03	23.39	21.20	22.60	21.58	22.93	23.29
	4H	21.90	23.22	22.30	23.57	23.95	21.83	23.15	22.23	23.50	23.88
	6H	22.35	23.57	22.76	23.94	24.33	22.29	23.51	22.70	23.87	24.26
	8H	22.54	23.70	22.96	24.09	24.49	22.48	23.64	22.90	24.03	24.43
	12H	22.64	23.76	23.07	24.14	24.57	22.60	23.71	23.03	24.10	24.52
4H	2H	20.44	21.76	20.84	22.11	22.49	20.30	21.62	20.70	21.97	22.34
	3H	22.04	23.14	22.45	23.54	23.94	21.97	23.07	22.38	23.47	23.87
	4H	22.78	23.77	23.21	24.18	24.62	22.73	23.72	23.17	24.14	24.57
	6H	23.37	24.23	23.82	24.67	25.13	23.33	24.19	23.78	24.63	25.09
	8H	23.61	24.42	24.07	24.86	25.33	23.57	24.38	24.04	24.82	25.29
	12H	23.77	24.49	24.25	24.97	25.44	23.75	24.47	24.23	24.95	25.42
8H	4H	23.05	23.86	23.52	24.30	24.77	23.01	23.82	23.47	24.26	24.73
	6H	23.78	24.45	24.28	24.94	25.42	23.74	24.41	24.24	24.90	25.38
	8H	24.12	24.72	24.63	25.23	25.71	24.08	24.68	24.59	25.19	25.68
	12H	24.35	24.88	24.86	25.38	25.94	24.34	24.88	24.85	25.37	25.93
12H	4H	23.08	23.81	23.57	24.28	24.75	23.04	23.77	23.53	24.24	24.71
	6H	23.84	24.45	24.36	24.96	25.44	23.81	24.41	24.32	24.92	25.41
	8H	24.24	24.78	24.75	25.27	25.83	24.21	24.75	24.72	25.24	25.80