

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: P1036290

Luminaire Tested: SQ4R-PP3-125D-B40-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036290
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

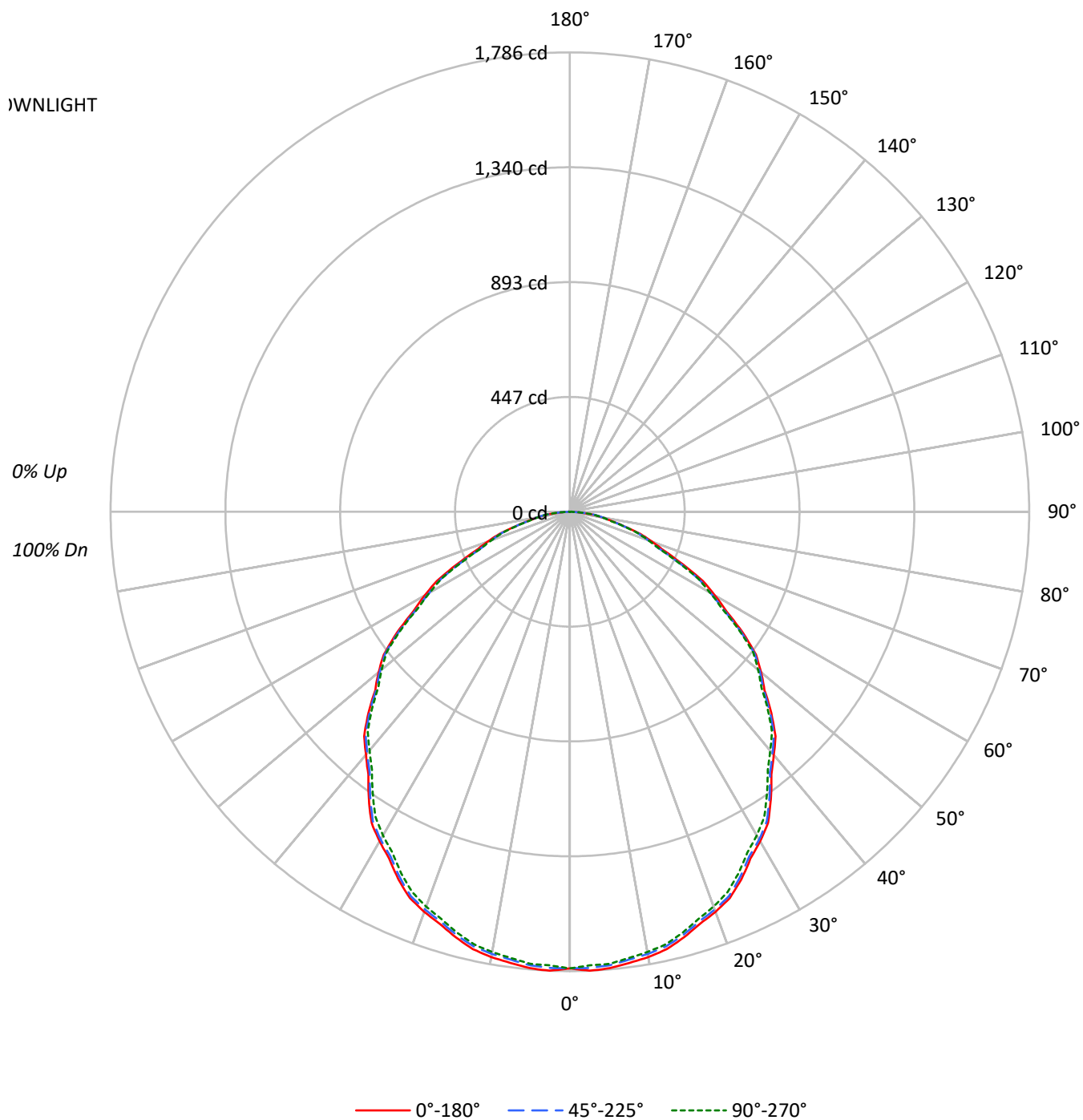
Lumens per Lamp: N/A
Luminaire Lumens: 4543.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	16377	16377	16377
5°	16496	16395	16338
10°	16469	16354	16281
15°	16360	16270	16181
20°	16251	16159	16038
25°	16057	15949	15790
30°	15762	15679	15478
35°	15349	15243	15050
40°	14856	14763	14595
45°	14453	14353	14208
50°	13933	13844	13709
55°	13211	13037	12939
60°	12027	11686	11627
65°	10599	10154	10119
70°	9145	8770	8770
75°	7878	7760	7650
80°	6939	7029	6854
85°	5431	5928	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14453 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.7
10°-20°	479.2	10.5
20°-30°	717.8	15.8
30°-40°	842.0	18.5
40°-50°	844.6	18.6
50°-60°	720.5	15.9
60°-70°	469.9	10.3
70°-80°	235.7	5.2
80°-90°	65.3	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°	1364.9	30.0
0°-40°	2206.9	48.6
0°-60°	3772.1	83.0
0°-90°	4543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1781	1765	1770	1764	1764	169
15°	1713	1696	1703	1697	1694	483
25°	1577	1559	1567	1552	1551	725
35°	1363	1349	1353	1338	1336	851
45°	1108	1100	1100	1089	1089	853
55°	821	818	810	806	804	730
65°	486	476	465	462	464	484
75°	221	221	218	216	215	240
85°	51	56	56	56	56	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1786.1	1771.5	1775.0	1772.4	1765.1
5°	1781.2	1764.6	1770.2	1764.1	1764.1
7.5°	1769.1	1750.9	1756.5	1750.4	1750.1
10°	1757.9	1739.7	1745.6	1739.1	1737.8
12.5°	1741.8	1723.6	1730.6	1723.0	1722.8
15°	1712.8	1696.0	1703.4	1697.0	1694.0
17.5°	1680.1	1661.8	1670.8	1662.1	1660.8
20°	1655.2	1636.9	1645.8	1633.5	1633.5
22.5°	1625.4	1607.2	1617.4	1601.0	1601.0
25°	1577.3	1559.1	1566.7	1552.4	1551.1
27.5°	1520.6	1502.5	1510.3	1494.2	1494.0
30°	1479.5	1462.6	1471.7	1454.6	1452.9
32.5°	1434.7	1419.1	1425.6	1408.4	1406.8
35°	1362.8	1349.1	1353.4	1337.9	1336.2
37.5°	1287.2	1273.3	1278.1	1264.6	1264.1
40°	1233.5	1224.4	1225.8	1214.7	1211.8
42.5°	1183.9	1173.4	1174.8	1163.7	1163.3
45°	1107.7	1100.0	1100.0	1088.9	1088.9
47.5°	1026.7	1020.8	1019.3	1010.2	1009.9
50°	970.7	966.2	964.5	956.8	955.1
52.5°	912.2	910.0	904.7	898.2	898.0
55°	821.3	818.4	810.5	805.7	804.4
57.5°	722.8	716.7	707.8	701.1	702.2
60°	651.8	645.6	633.3	630.1	630.1
62.5°	583.4	576.1	563.5	559.2	561.7
65°	485.5	476.4	465.1	462.1	463.5
67.5°	396.4	388.1	376.0	376.0	374.9
70°	339.0	334.4	325.1	325.1	325.1
72.5°	288.1	285.9	279.2	279.0	277.8
75°	221.0	221.0	217.7	216.2	214.6
77.5°	165.5	166.0	164.6	163.1	160.1
80°	130.6	133.8	132.3	130.6	129.0
82.5°	98.5	101.4	101.1	98.5	97.9
85°	51.3	55.8	56.0	56.0	56.0
87.5°	13.7	18.5	19.9	19.9	21.2
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	20.80	22.39	21.16	22.70	23.01	20.64	22.22	21.00	22.54	22.85
	3H	22.11	23.54	22.49	23.87	24.23	21.91	23.34	22.29	23.67	24.03
	4H	22.60	23.94	23.00	24.29	24.66	22.40	23.74	22.80	24.09	24.46
	6H	22.91	24.16	23.33	24.52	24.91	22.72	23.96	23.13	24.32	24.71
	8H	23.04	24.22	23.46	24.61	25.01	22.85	24.03	23.27	24.42	24.82
	12H	23.11	24.24	23.54	24.62	25.05	22.93	24.06	23.36	24.44	24.87
4H	2H	21.27	22.61	21.67	22.96	23.33	21.13	22.47	21.53	22.82	23.20
	3H	22.80	23.92	23.21	24.32	24.72	22.63	23.75	23.04	24.15	24.55
	4H	23.40	24.41	23.83	24.82	25.26	23.23	24.23	23.66	24.65	25.08
	6H	23.84	24.71	24.29	25.15	25.61	23.67	24.54	24.12	24.98	25.44
	8H	24.01	24.83	24.47	25.27	25.74	23.84	24.66	24.30	25.11	25.57
	12H	24.12	24.85	24.60	25.33	25.80	23.97	24.70	24.45	25.18	25.65
8H	4H	23.60	24.42	24.07	24.87	25.33	23.45	24.27	23.91	24.71	25.18
	6H	24.15	24.83	24.65	25.32	25.80	24.00	24.68	24.50	25.17	25.65
	8H	24.40	25.02	24.92	25.52	26.01	24.25	24.86	24.77	25.37	25.86
	12H	24.58	25.12	25.09	25.61	26.18	24.45	24.99	24.96	25.48	26.04
12H	4H	23.62	24.36	24.10	24.83	25.30	23.47	24.20	23.95	24.68	25.15
	6H	24.19	24.81	24.70	25.31	25.80	24.05	24.66	24.56	25.16	25.65
	8H	24.50	25.04	25.01	25.53	26.10	24.36	24.90	24.86	25.39	25.95