

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: P1036349

Luminaire Tested: SQ4R-PW1-125D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564826)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-125D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

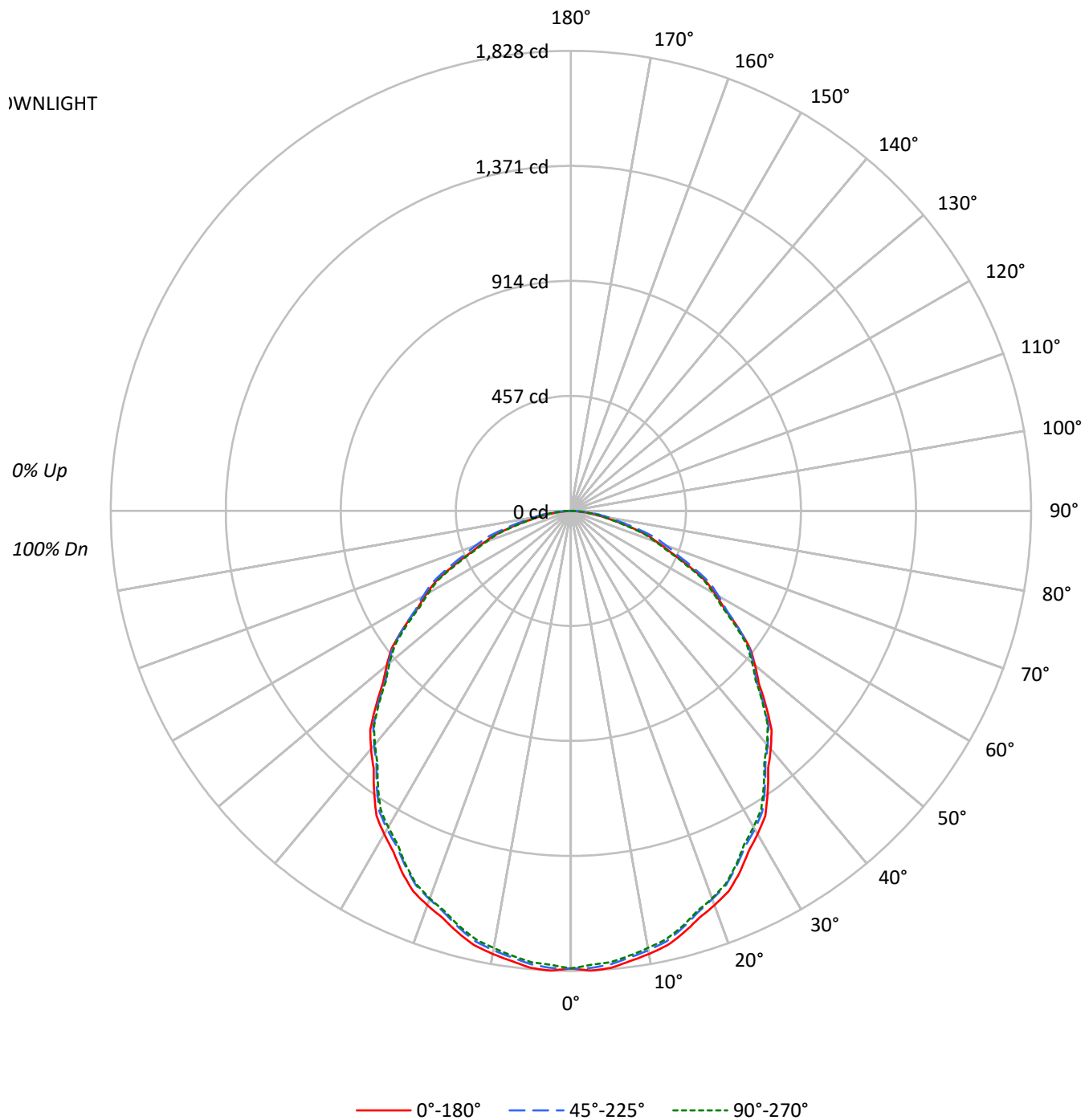
Lumens per Lamp: N/A
Luminaire Lumens: 4625.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P1036349

CATALOG NUMBER: SQ4R-PW1-125D-B2750-1D-UNV-W2A_3000K

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	102	99	95	98	95	92		94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16772	16772	16772
5°	16883	16749	16675
10°	16747	16612	16521
15°	16569	16386	16325
20°	16371	16119	16089
25°	16142	15849	15799
30°	15802	15564	15460
35°	15353	15135	15045
40°	14875	14642	14585
45°	14295	14109	14043
50°	13705	13588	13495
55°	13061	13061	12857
60°	12269	12503	12060
65°	11223	11784	10946
70°	9889	10844	9638
75°	8456	9703	8217
80°	6556	8172	6647
85°	4234	6288	5579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14295 cd/sqm

TEST NUMBER: P1036349

CATALOG NUMBER: SQ4R-PW1-125D-B2750-1D-UNV-W2A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.7
10°-20°	483.3	10.4
20°-30°	716.9	15.5
30°-40°	838.9	18.1
40°-50°	835.2	18.1
50°-60°	721.2	15.6
60°-70°	519.1	11.2
70°-80°	272.2	5.9
80°-90°	67.5	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°	1371.4	29.6
0°-40°	2210.3	47.8
0°-60°	3766.7	81.4
0°-90°	4625.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1823	1802	1808	1804	1800	173
15°	1735	1713	1716	1712	1709	489
25°	1586	1559	1557	1547	1552	729
35°	1363	1344	1344	1331	1336	852
45°	1096	1086	1081	1078	1076	845
55°	812	811	812	801	799	725
65°	514	530	540	518	501	510
75°	237	259	272	254	230	254
85°	40	52	59	56	53	54
90°	0	0	0	0	0	

TEST NUMBER: P1036349

CATALOG NUMBER: SQ4R-PW1-125D-B2750-1D-UNV-W2A_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.9	1817.9	1817.9	1817.9	1817.9
2.5°	1828.4	1813.2	1817.9	1814.1	1805.2
5°	1822.9	1802.4	1808.5	1803.5	1800.5
7.5°	1804.3	1785.6	1789.7	1784.8	1782.8
10°	1787.6	1768.7	1773.2	1766.8	1763.5
12.5°	1768.5	1748.3	1752.7	1746.1	1744.5
15°	1734.7	1712.7	1715.5	1712.1	1709.1
17.5°	1695.6	1673.5	1673.8	1668.8	1667.9
20°	1667.4	1643.9	1641.7	1635.4	1638.7
22.5°	1636.7	1611.9	1609.7	1600.9	1605.3
25°	1585.7	1559.2	1556.9	1547.3	1552.0
27.5°	1526.8	1500.6	1500.6	1487.1	1492.1
30°	1483.3	1458.1	1460.9	1444.8	1451.2
32.5°	1437.1	1414.5	1415.8	1400.2	1406.5
35°	1363.1	1344.4	1343.8	1331.2	1335.8
37.5°	1287.5	1270.9	1268.1	1261.0	1262.1
40°	1235.1	1221.0	1215.7	1211.0	1211.0
42.5°	1179.8	1167.1	1161.9	1158.3	1157.1
45°	1095.6	1086.2	1081.3	1077.9	1076.3
47.5°	1012.2	1003.6	999.3	997.0	995.4
50°	954.8	948.4	946.7	941.8	940.2
52.5°	897.1	893.2	891.5	885.5	883.8
55°	812.0	810.6	812.0	801.0	799.3
57.5°	723.7	726.1	731.4	716.2	712.3
60°	664.9	670.9	677.6	659.9	653.6
62.5°	604.4	614.6	623.7	603.3	594.5
65°	514.1	529.9	539.8	518.5	501.4
67.5°	427.1	446.5	458.4	435.7	416.1
70°	366.6	388.8	402.0	379.1	357.3
72.5°	314.2	338.7	349.6	327.7	305.9
75°	237.2	259.0	272.2	254.1	230.5
77.5°	168.2	188.8	199.9	184.2	164.6
80°	123.4	145.2	153.8	140.6	125.1
82.5°	87.6	105.7	111.6	103.6	92.7
85°	40.0	52.4	59.4	56.1	52.7
87.5°	10.2	19.1	24.3	24.3	25.7
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	20.81	22.41	21.17	22.72	23.04	20.71	22.31	21.07	22.62	22.94
	3H	22.37	23.81	22.74	24.13	24.50	22.24	23.68	22.61	24.01	24.37
	4H	22.92	24.27	23.31	24.62	25.00	22.78	24.13	23.18	24.48	24.86
	6H	23.21	24.47	23.62	24.83	25.22	23.08	24.33	23.49	24.70	25.09
	8H	23.30	24.50	23.73	24.89	25.29	23.18	24.38	23.60	24.77	25.17
	12H	23.34	24.49	23.77	24.87	25.30	23.24	24.39	23.67	24.77	25.20
4H	2H	21.45	22.81	21.85	23.15	23.53	21.37	22.73	21.77	23.08	23.45
	3H	23.25	24.38	23.66	24.78	25.18	23.14	24.27	23.55	24.67	25.07
	4H	23.91	24.93	24.34	25.35	25.78	23.79	24.81	24.22	25.23	25.66
	6H	24.31	25.21	24.77	25.65	26.10	24.19	25.08	24.65	25.52	25.98
	8H	24.44	25.28	24.91	25.72	26.19	24.33	25.17	24.80	25.61	26.08
	12H	24.51	25.26	24.99	25.74	26.21	24.43	25.18	24.91	25.65	26.12
8H	4H	24.19	25.02	24.65	25.46	25.93	24.08	24.91	24.54	25.36	25.82
	6H	24.71	25.40	25.20	25.89	26.36	24.60	25.29	25.09	25.78	26.25
	8H	24.91	25.53	25.42	26.03	26.52	24.81	25.43	25.32	25.93	26.42
	12H	25.03	25.57	25.53	26.07	26.63	24.96	25.51	25.47	26.00	26.56
12H	4H	24.20	24.95	24.69	25.43	25.90	24.10	24.85	24.58	25.32	25.79
	6H	24.75	25.37	25.26	25.88	26.37	24.64	25.27	25.15	25.77	26.26
	8H	25.01	25.55	25.51	26.05	26.61	24.91	25.46	25.42	25.95	26.51

END OF REPORT