

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: P1036317

Luminaire Tested: SQ4R-PR1-125D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036317
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_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

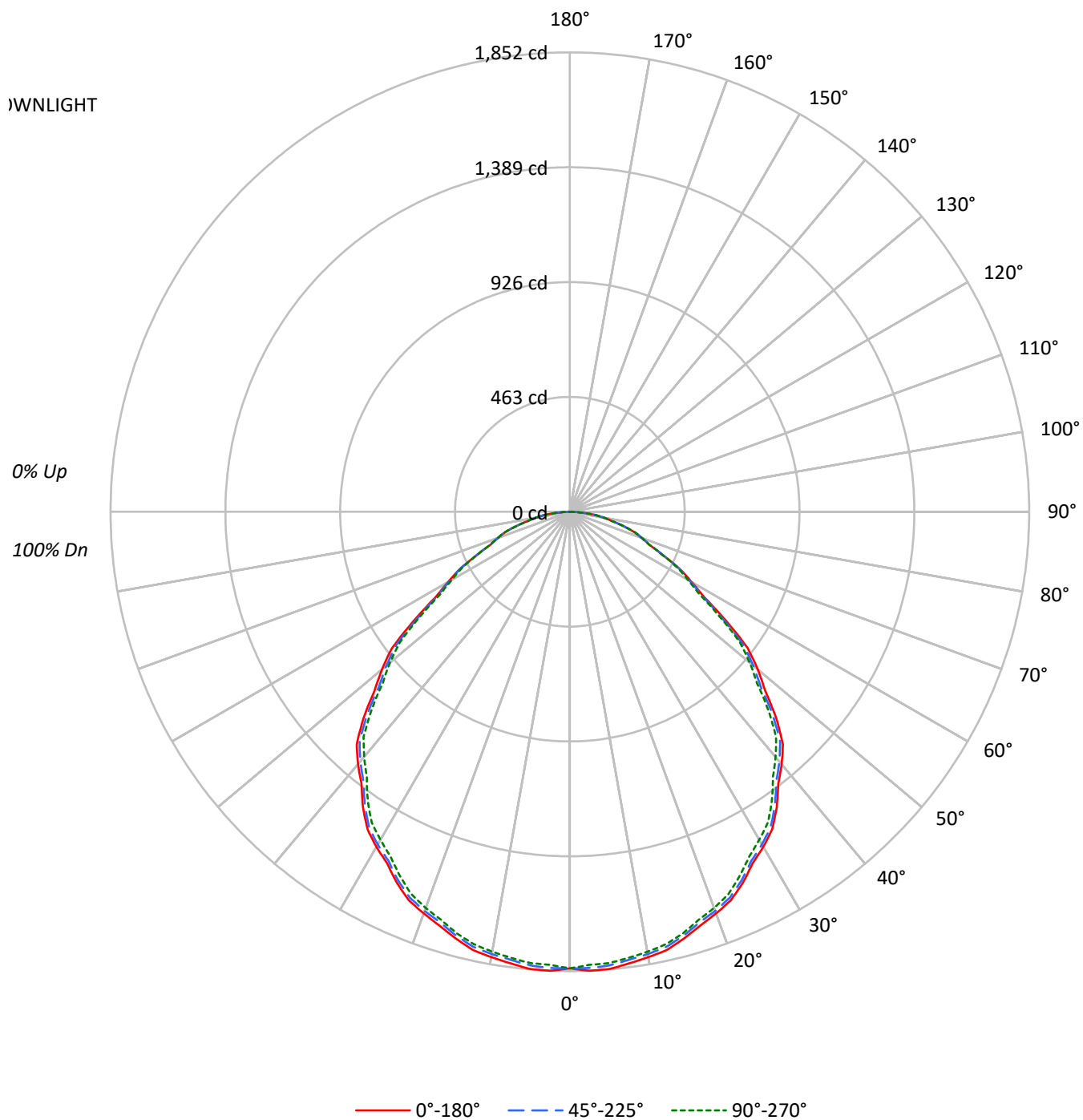
Lumens per Lamp: N/A
Luminaire Lumens: 4601.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16983	16983	16983
5°	17136	17004	16916
10°	17081	16963	16874
15°	17008	16901	16809
20°	16921	16811	16688
25°	16801	16690	16496
30°	16619	16503	16267
35°	16377	16232	16000
40°	16000	15829	15544
45°	15352	15081	14770
50°	14200	13860	13584
55°	12392	12116	11861
60°	10444	10357	10151
65°	9034	9069	8997
70°	8295	8338	8338
75°	7971	7971	8028
80°	7492	7582	7492
85°	6045	6711	6711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.8
10°-20°	498.0	10.8
20°-30°	751.2	16.3
30°-40°	895.0	19.5
40°-50°	882.4	19.2
50°-60°	674.4	14.7
60°-70°	417.3	9.1
70°-80°	237.0	5.2
80°-90°	72.1	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°	1423.3	30.9
0°-40°	2318.4	50.4
0°-60°	3875.2	84.2
0°-90°	4601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1850	1830	1836	1830	1826	176
15°	1781	1762	1769	1763	1760	502
25°	1650	1630	1640	1622	1620	760
35°	1454	1437	1441	1422	1421	907
45°	1177	1161	1156	1135	1132	901
55°	770	758	753	740	737	690
65°	414	411	415	412	412	419
75°	224	224	224	225	225	236
85°	57	60	63	63	63	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.7	1840.7	1840.7	1840.7	1840.7
2.5°	1852.2	1836.0	1840.7	1836.9	1828.2
5°	1850.3	1830.0	1836.0	1829.5	1826.5
7.5°	1836.0	1816.1	1822.1	1815.6	1813.9
10°	1823.2	1804.6	1810.6	1804.3	1801.1
12.5°	1809.3	1789.5	1796.7	1789.0	1786.1
15°	1780.6	1761.9	1769.4	1763.0	1759.8
17.5°	1748.8	1728.9	1736.5	1729.2	1725.1
20°	1723.4	1704.9	1712.2	1701.3	1699.7
22.5°	1695.6	1677.0	1684.4	1669.6	1669.3
25°	1650.4	1630.3	1639.5	1622.1	1620.4
27.5°	1596.9	1578.4	1585.7	1567.9	1566.3
30°	1560.0	1541.4	1549.1	1529.9	1526.9
32.5°	1518.2	1501.0	1507.3	1488.1	1486.2
35°	1454.0	1436.8	1441.2	1422.3	1420.6
37.5°	1380.7	1365.1	1367.6	1346.5	1345.2
40°	1328.5	1313.2	1314.3	1292.1	1290.6
42.5°	1271.7	1256.1	1254.7	1232.6	1231.0
45°	1176.6	1161.0	1155.8	1135.0	1132.0
47.5°	1068.1	1052.5	1042.9	1026.0	1023.8
50°	989.3	973.7	965.6	951.1	946.4
52.5°	904.4	888.8	881.9	868.8	864.1
55°	770.4	758.1	753.2	740.3	737.4
57.5°	643.3	635.2	633.5	621.2	619.8
60°	566.0	561.3	561.3	550.1	550.1
62.5°	500.2	496.6	499.1	491.6	490.5
65°	413.8	410.7	415.4	412.1	412.1
67.5°	345.7	345.7	348.5	347.1	347.1
70°	307.5	307.5	309.1	309.1	309.1
72.5°	273.3	272.2	276.3	276.0	274.9
75°	223.6	223.6	223.6	225.2	225.2
77.5°	174.1	174.3	175.7	175.4	174.1
80°	141.0	142.7	142.7	141.0	141.0
82.5°	108.2	109.6	109.6	109.3	108.2
85°	57.1	60.2	63.4	63.4	63.4
87.5°	16.4	21.3	25.4	25.4	24.0
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	19.94	21.51	20.31	21.82	22.13	19.77	21.33	20.14	21.65	21.96
	3H	21.28	22.68	21.65	23.01	23.37	21.18	22.58	21.55	22.91	23.27
	4H	21.88	23.20	22.28	23.55	23.92	21.81	23.12	22.21	23.47	23.85
	6H	22.33	23.55	22.74	23.91	24.30	22.26	23.48	22.68	23.85	24.24
	8H	22.51	23.67	22.94	24.06	24.46	22.45	23.61	22.88	24.00	24.40
	12H	22.62	23.73	23.05	24.11	24.54	22.58	23.69	23.01	24.07	24.50
4H	2H	20.42	21.73	20.82	22.08	22.46	20.28	21.59	20.67	21.94	22.32
	3H	22.02	23.11	22.43	23.51	23.91	21.95	23.04	22.36	23.44	23.84
	4H	22.75	23.74	23.19	24.16	24.59	22.71	23.70	23.14	24.11	24.55
	6H	23.34	24.20	23.80	24.65	25.10	23.30	24.16	23.76	24.61	25.06
	8H	23.59	24.39	24.05	24.84	25.30	23.55	24.36	24.01	24.80	25.27
	12H	23.74	24.47	24.22	24.94	25.41	23.73	24.45	24.21	24.93	25.40
8H	4H	23.03	23.84	23.49	24.28	24.75	22.99	23.79	23.45	24.24	24.70
	6H	23.76	24.43	24.25	24.92	25.39	23.72	24.39	24.22	24.88	25.36
	8H	24.09	24.69	24.60	25.20	25.69	24.06	24.66	24.57	25.17	25.66
	12H	24.32	24.86	24.83	25.35	25.91	24.32	24.85	24.82	25.34	25.91
12H	4H	23.06	23.78	23.54	24.26	24.73	23.02	23.74	23.50	24.22	24.69
	6H	23.82	24.42	24.33	24.93	25.42	23.78	24.39	24.30	24.90	25.38
	8H	24.22	24.75	24.72	25.24	25.81	24.19	24.72	24.69	25.21	25.77