

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: P1036321

Luminaire Tested: SQ4R-PR1-125D-B35-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036321
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

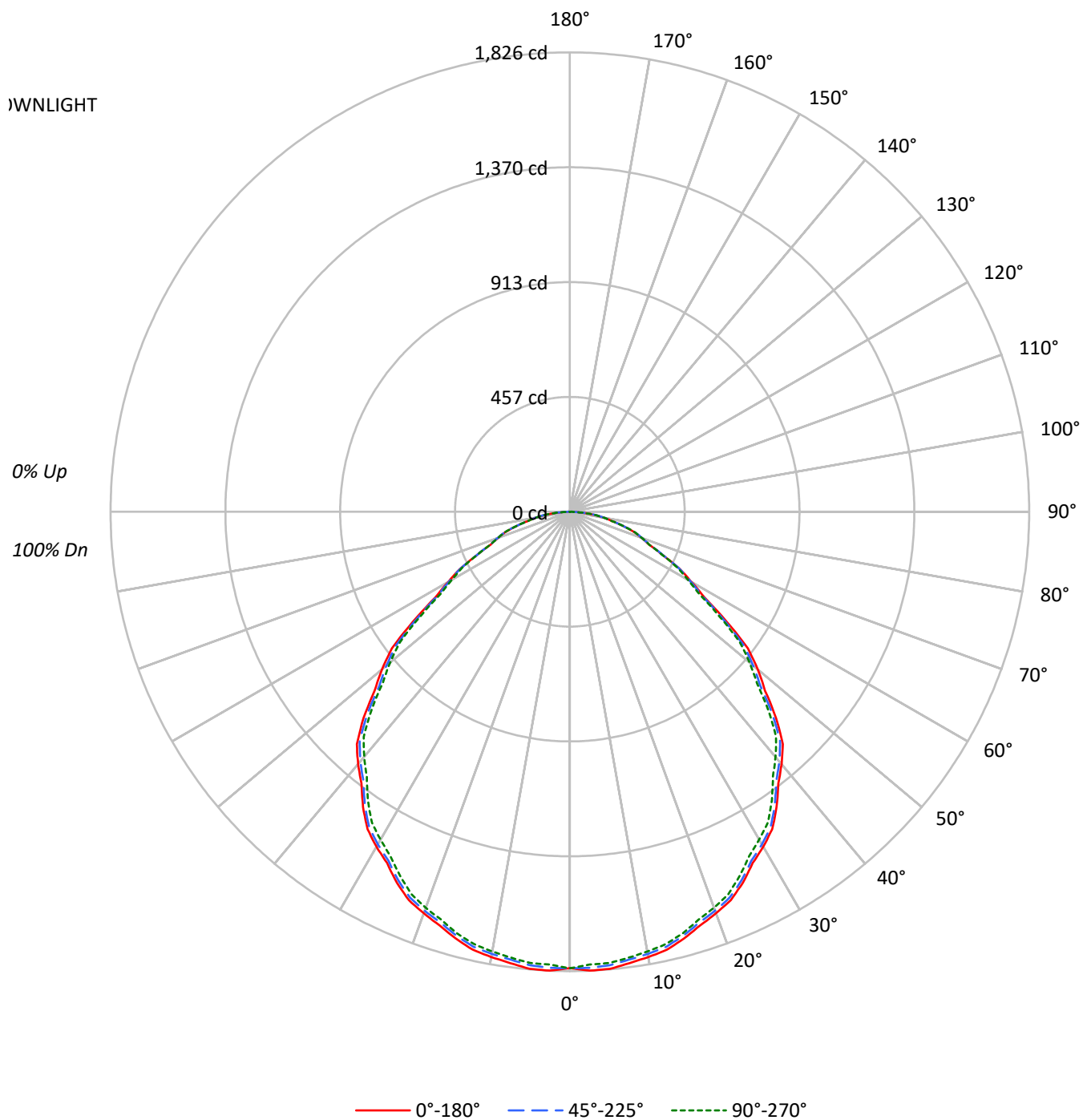
Lumens per Lamp: N/A
Luminaire Lumens: 4535.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	16739	16739	16739
5°	16891	16760	16673
10°	16835	16719	16631
15°	16764	16658	16567
20°	16678	16569	16449
25°	16561	16451	16258
30°	16381	16267	16034
35°	16141	15999	15771
40°	15770	15602	15320
45°	15132	14864	14559
50°	13996	13662	13390
55°	12215	11942	11691
60°	10295	10210	10005
65°	8905	8938	8868
70°	8176	8217	8217
75°	7857	7857	7910
80°	7385	7470	7385
85°	5960	6616	6616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15132 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.8
10°-20°	490.9	10.8
20°-30°	740.4	16.3
30°-40°	882.2	19.5
40°-50°	869.8	19.2
50°-60°	664.7	14.7
60°-70°	411.3	9.1
70°-80°	233.6	5.2
80°-90°	71.0	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°	1402.9	30.9
0°-40°	2285.1	50.4
0°-60°	3819.6	84.2
0°-90°	4535.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1824	1804	1810	1803	1800	173
15°	1755	1737	1744	1738	1734	495
25°	1627	1607	1616	1599	1597	749
35°	1433	1416	1420	1402	1400	894
45°	1160	1144	1139	1119	1116	888
55°	759	747	742	730	727	680
65°	408	405	409	406	406	413
75°	220	220	220	222	222	233
85°	56	59	62	62	62	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1825.6	1809.7	1814.3	1810.5	1801.9
5°	1823.8	1803.8	1809.7	1803.2	1800.3
7.5°	1809.7	1790.1	1796.0	1789.5	1787.8
10°	1797.0	1778.7	1784.6	1778.4	1775.2
12.5°	1783.3	1763.9	1770.9	1763.4	1760.4
15°	1755.1	1736.7	1744.0	1737.7	1734.5
17.5°	1723.7	1704.1	1711.6	1704.4	1700.4
20°	1698.7	1680.4	1687.6	1676.9	1675.3
22.5°	1671.3	1652.9	1660.2	1645.7	1645.4
25°	1626.8	1606.9	1616.0	1598.8	1597.1
27.5°	1574.0	1555.7	1563.0	1545.4	1543.8
30°	1537.6	1519.3	1526.9	1508.0	1505.0
32.5°	1496.4	1479.5	1485.7	1466.8	1464.9
35°	1433.1	1416.2	1420.5	1401.9	1400.2
37.5°	1360.9	1345.5	1348.0	1327.2	1325.9
40°	1309.4	1294.3	1295.4	1273.6	1272.0
42.5°	1253.4	1238.1	1236.7	1214.9	1213.3
45°	1159.7	1144.3	1139.2	1118.7	1115.8
47.5°	1052.7	1037.4	1028.0	1011.3	1009.1
50°	975.1	959.8	951.8	937.5	932.9
52.5°	891.4	876.0	869.3	856.3	851.7
55°	759.4	747.2	742.4	729.7	726.8
57.5°	634.1	626.1	624.4	612.3	610.9
60°	557.9	553.3	553.3	542.2	542.2
62.5°	493.0	489.5	491.9	484.6	483.5
65°	407.9	404.8	409.4	406.2	406.2
67.5°	340.7	340.7	343.5	342.1	342.1
70°	303.1	303.1	304.6	304.6	304.6
72.5°	269.4	268.3	272.3	272.0	271.0
75°	220.4	220.4	220.4	221.9	221.9
77.5°	171.6	171.8	173.2	172.9	171.6
80°	139.0	140.6	140.6	139.0	139.0
82.5°	106.7	108.0	108.0	107.7	106.7
85°	56.3	59.3	62.5	62.5	62.5
87.5°	16.1	21.0	25.1	25.1	23.7
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	19.89	21.46	20.26	21.77	22.08	19.72	21.28	20.09	21.60	21.91
	3H	21.23	22.63	21.60	22.96	23.32	21.13	22.53	21.50	22.86	23.22
	4H	21.83	23.15	22.23	23.50	23.87	21.76	23.07	22.15	23.42	23.80
	6H	22.28	23.50	22.69	23.86	24.25	22.21	23.43	22.62	23.80	24.19
	8H	22.46	23.62	22.89	24.01	24.41	22.40	23.56	22.83	23.95	24.35
	12H	22.57	23.68	23.00	24.06	24.49	22.53	23.64	22.96	24.02	24.45
4H	2H	20.37	21.68	20.77	22.03	22.41	20.23	21.54	20.62	21.89	22.27
	3H	21.97	23.06	22.38	23.46	23.86	21.89	22.99	22.31	23.39	23.79
	4H	22.70	23.69	23.14	24.11	24.54	22.66	23.65	23.09	24.06	24.50
	6H	23.29	24.15	23.75	24.60	25.05	23.25	24.11	23.71	24.56	25.01
	8H	23.54	24.34	24.00	24.79	25.25	23.50	24.30	23.96	24.75	25.21
	12H	23.69	24.42	24.17	24.89	25.36	23.68	24.40	24.16	24.87	25.35
8H	4H	22.98	23.79	23.44	24.23	24.70	22.94	23.74	23.40	24.19	24.65
	6H	23.71	24.38	24.20	24.87	25.34	23.67	24.34	24.16	24.83	25.31
	8H	24.04	24.64	24.55	25.15	25.64	24.01	24.61	24.52	25.12	25.60
	12H	24.27	24.81	24.78	25.30	25.86	24.27	24.80	24.77	25.29	25.86
12H	4H	23.01	23.73	23.49	24.21	24.68	22.97	23.69	23.45	24.17	24.64
	6H	23.77	24.37	24.28	24.88	25.37	23.73	24.34	24.25	24.85	25.33
	8H	24.17	24.70	24.67	25.19	25.76	24.13	24.67	24.64	25.16	25.72