

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: P1036253

Luminaire Tested: SQ4R-PC3-125D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-125D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

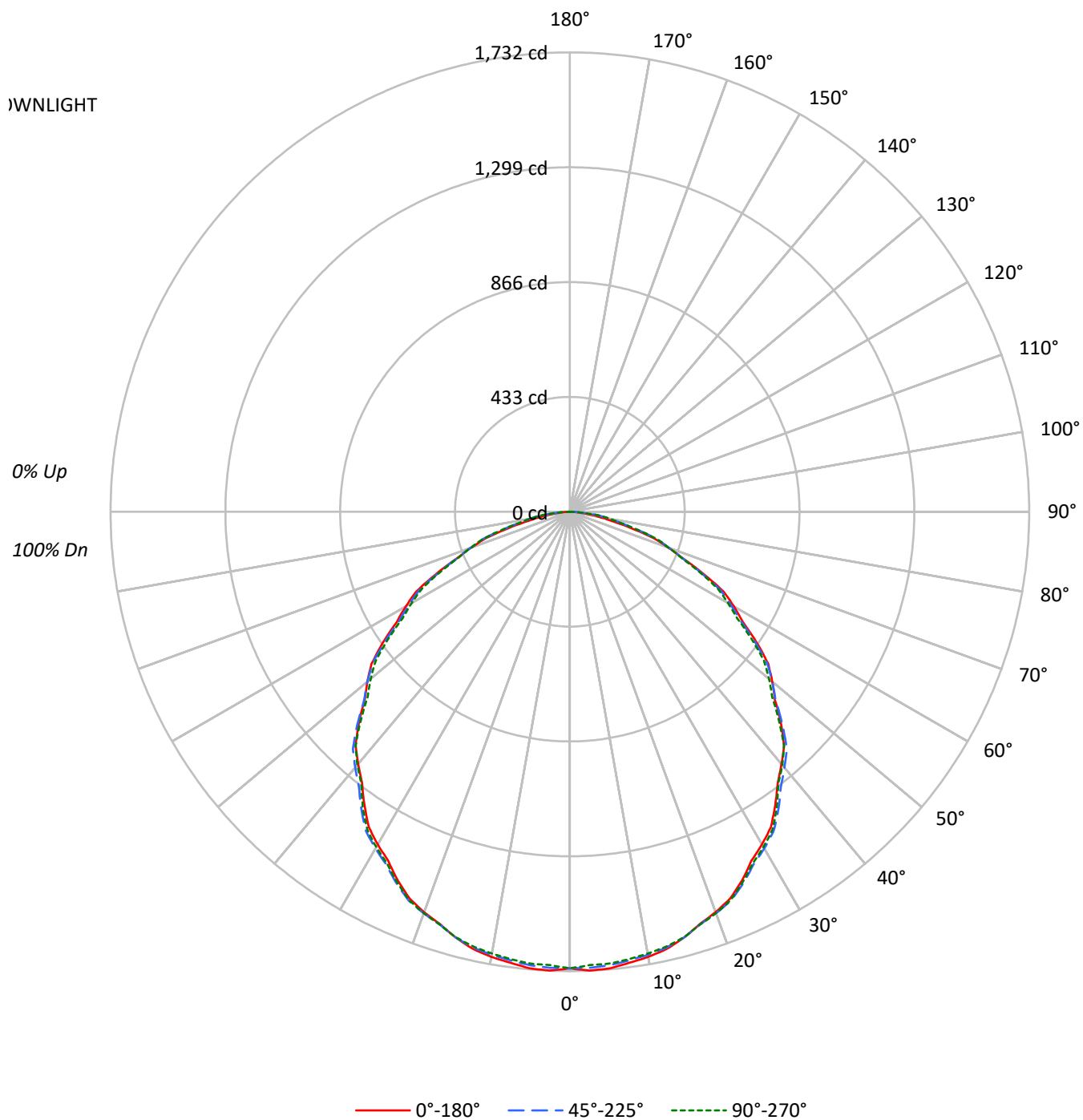
Lumens per Lamp: N/A
Luminaire Lumens: 4698.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15880	15880	15880
5°	16003	15898	15839
10°	15964	15889	15843
15°	15880	15880	15863
20°	15775	15820	15820
25°	15626	15738	15690
30°	15434	15621	15553
35°	15206	15438	15329
40°	14953	15166	15013
45°	14683	14787	14557
50°	14299	14299	14071
55°	13846	13665	13460
60°	13175	12911	12704
65°	12177	11935	11828
70°	10663	10747	10709
75°	8580	9493	9550
80°	6105	8044	8129
85°	3716	6743	6743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 14787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.5
10°-20°	467.5	10.0
20°-30°	708.0	15.1
30°-40°	848.8	18.1
40°-50°	865.4	18.4
50°-60°	755.5	16.1
60°-70°	540.8	11.5
70°-80°	278.6	5.9
80°-90°	70.5	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°	1338.4	28.5
0°-40°	2187.1	46.6
0°-60°	3808.1	81.1
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1728	1710	1717	1712	1710	164
15°	1662	1648	1662	1662	1661	469
25°	1535	1524	1546	1541	1541	706
35°	1350	1347	1371	1361	1361	844
45°	1125	1122	1133	1119	1116	866
55°	861	850	850	837	837	767
65°	558	545	547	542	542	552
75°	241	252	266	268	268	260
85°	35	54	64	65	64	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.2	1721.2	1721.2	1721.2	1721.2
2.5°	1731.7	1716.6	1721.2	1717.4	1711.1
5°	1727.9	1710.5	1716.6	1711.6	1710.2
7.5°	1715.2	1698.2	1706.1	1702.9	1701.2
10°	1704.0	1686.6	1696.0	1692.6	1691.1
12.5°	1688.6	1672.6	1683.1	1680.0	1679.5
15°	1662.5	1648.5	1662.5	1662.5	1660.8
17.5°	1629.5	1616.9	1631.7	1632.8	1631.7
20°	1606.7	1592.7	1611.3	1609.7	1611.3
22.5°	1578.7	1567.2	1587.2	1583.0	1584.7
25°	1535.0	1524.0	1546.0	1541.3	1541.3
27.5°	1483.4	1475.3	1499.5	1494.3	1494.3
30°	1448.7	1441.1	1466.3	1459.9	1459.9
32.5°	1410.5	1405.3	1429.4	1421.8	1421.8
35°	1350.1	1346.7	1370.7	1361.0	1361.0
37.5°	1287.5	1284.7	1306.4	1294.8	1291.0
40°	1241.5	1240.2	1259.2	1246.5	1246.5
42.5°	1195.6	1194.1	1210.8	1195.4	1195.4
45°	1125.3	1122.1	1133.3	1118.7	1115.7
47.5°	1048.4	1045.4	1052.3	1036.6	1034.9
50°	996.2	992.9	996.2	981.7	980.3
52.5°	942.7	936.9	937.4	923.1	922.8
55°	860.8	849.7	849.5	836.8	836.8
57.5°	773.9	759.7	761.0	750.1	748.4
60°	714.0	698.3	699.7	690.1	688.5
62.5°	655.3	637.4	641.0	630.2	629.9
65°	557.8	545.4	546.7	541.8	541.8
67.5°	464.0	452.5	461.1	457.2	456.9
70°	395.3	387.4	398.4	398.4	397.0
72.5°	331.6	331.3	344.8	344.8	345.9
75°	240.7	251.7	266.3	267.9	267.9
77.5°	160.7	180.0	196.2	196.7	196.5
80°	114.9	136.5	151.4	154.7	153.0
82.5°	77.7	100.9	113.2	116.3	114.9
85°	35.1	53.8	63.7	65.4	63.7
87.5°	10.1	21.4	25.5	25.5	23.0
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	21.07	22.69	21.44	23.00	23.32	20.96	22.57	21.32	22.89	23.20
	3H	22.62	24.07	23.00	24.40	24.76	22.56	24.02	22.94	24.34	24.70
	4H	23.13	24.50	23.53	24.85	25.22	23.16	24.53	23.56	24.88	25.26
	6H	23.36	24.63	23.78	25.00	25.39	23.53	24.80	23.94	25.16	25.55
	8H	23.43	24.64	23.85	25.03	25.43	23.67	24.88	24.09	25.27	25.66
	12H	23.45	24.61	23.88	24.99	25.42	23.75	24.91	24.18	25.29	25.72
4H	2H	21.67	23.04	22.07	23.39	23.76	21.58	22.95	21.98	23.30	23.67
	3H	23.42	24.57	23.83	24.97	25.37	23.40	24.54	23.81	24.94	25.34
	4H	24.03	25.07	24.47	25.48	25.92	24.10	25.14	24.54	25.55	25.99
	6H	24.37	25.27	24.83	25.72	26.17	24.58	25.48	25.04	25.92	26.38
	8H	24.47	25.32	24.94	25.76	26.23	24.77	25.61	25.23	26.05	26.52
	12H	24.53	25.28	25.01	25.76	26.23	24.89	25.65	25.37	26.13	26.59
8H	4H	24.29	25.13	24.75	25.57	26.04	24.35	25.19	24.81	25.64	26.10
	6H	24.73	25.43	25.23	25.92	26.40	24.94	25.64	25.43	26.13	26.60
	8H	24.90	25.53	25.41	26.03	26.52	25.20	25.83	25.71	26.34	26.82
	12H	25.00	25.56	25.51	26.05	26.61	25.40	25.95	25.90	26.44	27.00
12H	4H	24.31	25.07	24.79	25.54	26.01	24.37	25.12	24.85	25.60	26.07
	6H	24.78	25.41	25.29	25.92	26.40	24.98	25.61	25.49	26.11	26.60
	8H	25.00	25.56	25.51	26.05	26.61	25.30	25.85	25.80	26.34	26.90