

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: P1036254

Luminaire Tested: SQ4R-PC3-125D-B2750-1D-UNV-W2A_3500K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036254
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_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

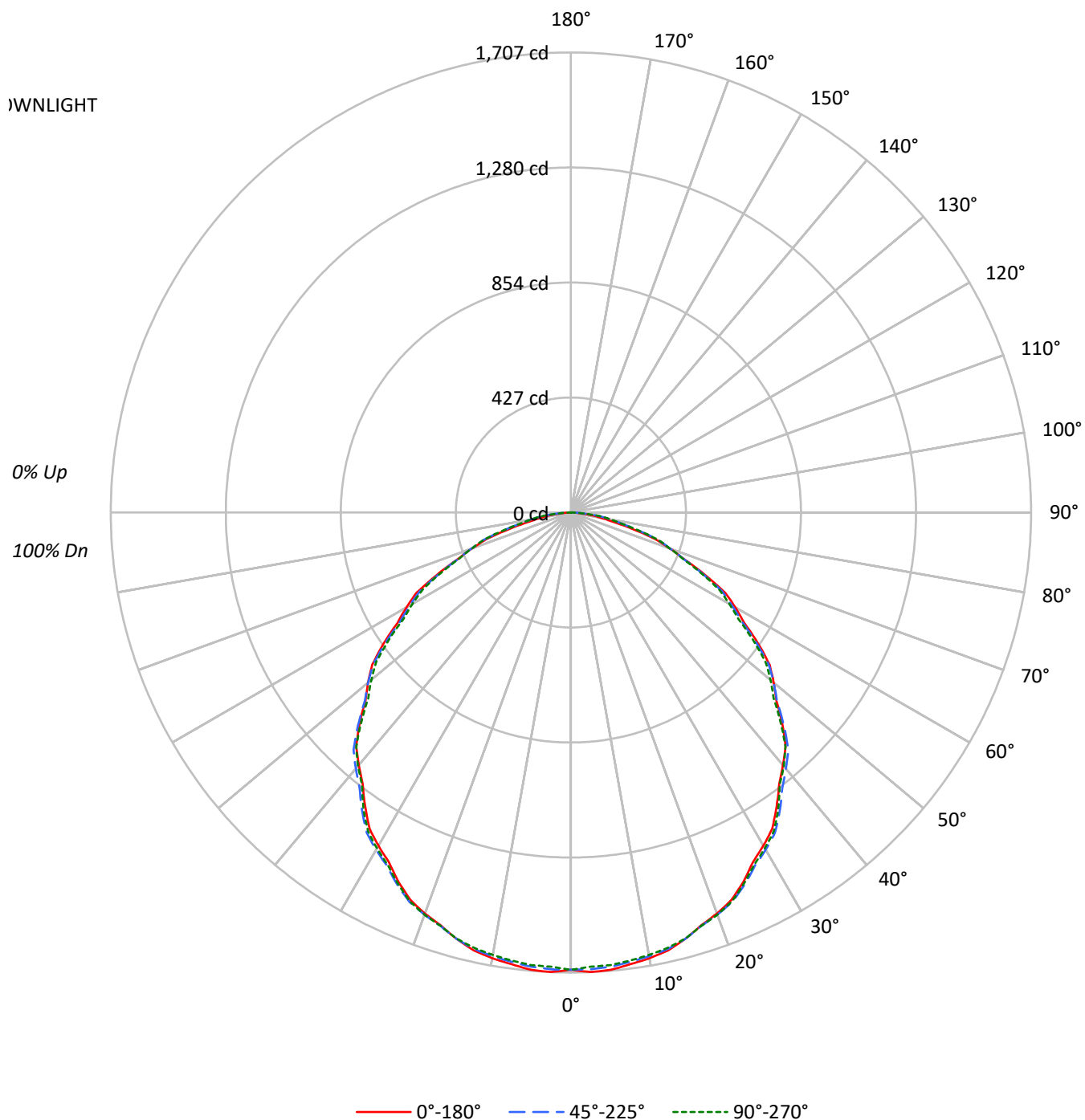
Lumens per Lamp: N/A
Luminaire Lumens: 4630.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	15652	15652	15652
5°	15773	15669	15612
10°	15734	15661	15615
15°	15651	15651	15635
20°	15548	15593	15593
25°	15402	15512	15465
30°	15212	15396	15330
35°	14989	15216	15109
40°	14738	14948	14797
45°	14473	14574	14349
50°	14094	14094	13868
55°	13647	13470	13267
60°	12987	12727	12522
65°	12003	11765	11658
70°	10512	10593	10556
75°	8456	9357	9411
80°	6014	7927	8012
85°	3663	6648	6648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 14574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.5
10°-20°	460.8	10.0
20°-30°	697.8	15.1
30°-40°	836.6	18.1
40°-50°	853.0	18.4
50°-60°	744.6	16.1
60°-70°	533.1	11.5
70°-80°	274.6	5.9
80°-90°	69.4	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°	1319.2	28.5
0°-40°	2155.8	46.6
0°-60°	3753.4	81.1
0°-90°	4630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1703	1686	1692	1687	1686	162
15°	1639	1625	1639	1639	1637	462
25°	1513	1502	1524	1519	1519	696
35°	1331	1327	1351	1342	1342	832
45°	1109	1106	1117	1103	1100	854
55°	848	838	837	825	825	756
65°	550	538	539	534	534	544
75°	237	248	262	264	264	256
85°	35	53	63	64	63	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1706.8	1691.9	1696.5	1692.7	1686.6
5°	1703.1	1686.0	1691.9	1687.0	1685.7
7.5°	1690.6	1673.8	1681.7	1678.4	1676.8
10°	1679.5	1662.4	1671.7	1668.4	1666.8
12.5°	1664.3	1648.6	1659.0	1655.9	1655.4
15°	1638.6	1624.8	1638.6	1638.6	1636.9
17.5°	1606.1	1593.7	1608.3	1609.3	1608.3
20°	1583.6	1569.8	1588.2	1586.6	1588.2
22.5°	1556.0	1544.7	1564.4	1560.3	1562.0
25°	1513.0	1502.1	1523.8	1519.2	1519.2
27.5°	1462.1	1454.1	1478.0	1472.8	1472.8
30°	1427.9	1420.4	1445.2	1439.0	1439.0
32.5°	1390.2	1385.2	1408.9	1401.4	1401.4
35°	1330.8	1327.4	1351.0	1341.5	1341.5
37.5°	1269.0	1266.3	1287.7	1276.2	1272.5
40°	1223.7	1222.4	1241.1	1228.6	1228.6
42.5°	1178.5	1176.9	1193.5	1178.3	1178.3
45°	1109.2	1106.0	1117.0	1102.6	1099.7
47.5°	1033.4	1030.4	1037.2	1021.7	1020.1
50°	981.9	978.7	981.9	967.6	966.2
52.5°	929.1	923.5	924.0	909.9	909.6
55°	848.4	837.6	837.4	824.8	824.8
57.5°	762.8	748.8	750.1	739.3	737.6
60°	703.8	688.3	689.7	680.2	678.6
62.5°	645.9	628.2	631.8	621.2	620.9
65°	549.8	537.5	538.9	534.0	534.0
67.5°	457.4	446.0	454.4	450.6	450.3
70°	389.7	381.8	392.7	392.7	391.3
72.5°	326.8	326.5	339.9	339.9	340.9
75°	237.2	248.1	262.5	264.0	264.0
77.5°	158.4	177.4	193.4	193.9	193.7
80°	113.2	134.6	149.2	152.5	150.8
82.5°	76.6	99.4	111.6	114.6	113.2
85°	34.6	53.0	62.8	64.5	62.8
87.5°	10.0	21.1	25.1	25.1	22.7
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	21.02	22.64	21.39	22.95	23.27	20.91	22.52	21.27	22.84	23.15
	3H	22.57	24.02	22.95	24.35	24.71	22.51	23.97	22.89	24.29	24.65
	4H	23.08	24.45	23.48	24.80	25.17	23.11	24.48	23.51	24.83	25.20
	6H	23.31	24.58	23.73	24.95	25.34	23.48	24.75	23.89	25.11	25.50
	8H	23.38	24.59	23.80	24.98	25.38	23.62	24.83	24.04	25.22	25.61
	12H	23.40	24.56	23.83	24.94	25.37	23.70	24.86	24.13	25.24	25.67
4H	2H	21.62	22.99	22.02	23.34	23.71	21.53	22.90	21.93	23.25	23.62
	3H	23.37	24.52	23.78	24.92	25.32	23.35	24.49	23.76	24.89	25.29
	4H	23.98	25.02	24.42	25.43	25.87	24.05	25.09	24.49	25.50	25.94
	6H	24.32	25.22	24.78	25.67	26.12	24.53	25.43	24.99	25.87	26.33
	8H	24.42	25.27	24.89	25.71	26.17	24.72	25.56	25.18	26.00	26.47
	12H	24.48	25.23	24.96	25.71	26.18	24.84	25.60	25.32	26.07	26.54
8H	4H	24.24	25.08	24.70	25.52	25.99	24.30	25.14	24.76	25.59	26.05
	6H	24.68	25.38	25.18	25.87	26.35	24.89	25.59	25.38	26.08	26.55
	8H	24.85	25.48	25.36	25.98	26.47	25.15	25.78	25.66	26.28	26.77
	12H	24.95	25.51	25.46	26.00	26.56	25.35	25.90	25.85	26.39	26.95
12H	4H	24.26	25.02	24.74	25.49	25.96	24.32	25.07	24.80	25.55	26.02
	6H	24.73	25.36	25.24	25.87	26.35	24.93	25.56	25.44	26.06	26.55
	8H	24.95	25.51	25.46	26.00	26.56	25.24	25.80	25.75	26.29	26.85