

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: P1036288

Luminaire Tested: SQ4R-PP3-125D-B2750-1D-UNV-W2A_5000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-125D-B2750-1D-UNV-W2A_5000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

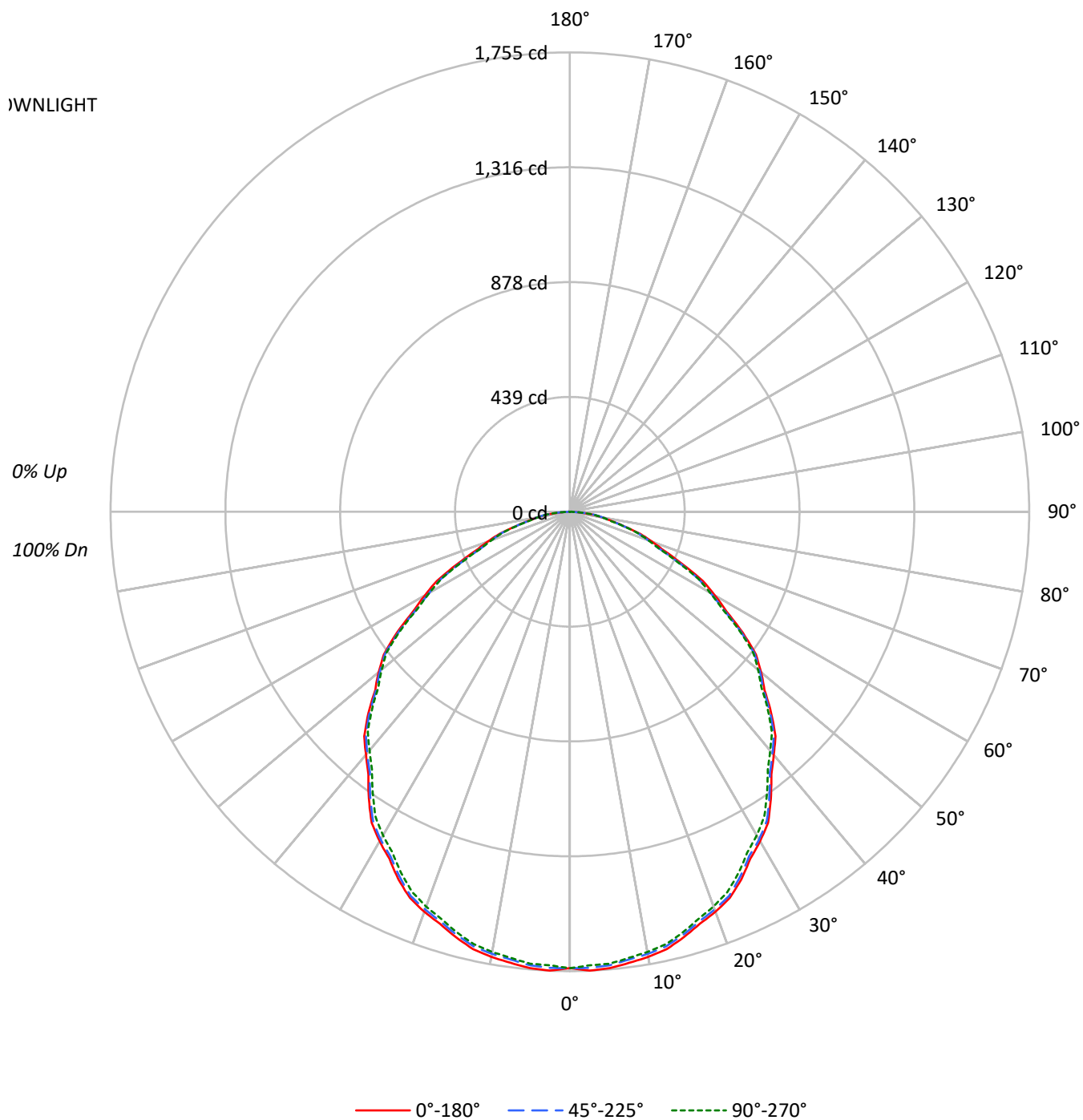
Lumens per Lamp: N/A
Luminaire Lumens: 4463.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16089	16089	16089
5°	16207	16107	16051
10°	16179	16066	15995
15°	16073	15985	15896
20°	15966	15874	15755
25°	15775	15668	15512
30°	15485	15403	15207
35°	15079	14975	14785
40°	14595	14503	14338
45°	14200	14099	13959
50°	13687	13601	13468
55°	12978	12809	12712
60°	11815	11479	11422
65°	10413	9975	9942
70°	8983	8616	8616
75°	7743	7625	7514
80°	6817	6907	6732
85°	5335	5822	5822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.7
10°-20°	470.8	10.5
20°-30°	705.2	15.8
30°-40°	827.2	18.5
40°-50°	829.7	18.6
50°-60°	707.9	15.9
60°-70°	461.6	10.3
70°-80°	231.6	5.2
80°-90°	64.1	1.4
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°	1340.9	30.0
0°-40°	2168.1	48.6
0°-60°	3705.7	83.0
0°-90°	4463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4463.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1750	1734	1739	1733	1733	166
15°	1683	1666	1674	1667	1664	475
25°	1550	1532	1539	1525	1524	713
35°	1339	1325	1330	1314	1313	836
45°	1088	1081	1081	1070	1070	838
55°	807	804	796	792	790	717
65°	477	468	457	454	455	476
75°	217	217	214	212	211	235
85°	50	55	55	55	55	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1754.7	1740.4	1743.8	1741.3	1734.1
5°	1749.9	1733.5	1739.1	1733.1	1733.1
7.5°	1738.0	1720.1	1725.6	1719.6	1719.4
10°	1727.0	1709.1	1714.9	1708.5	1707.3
12.5°	1711.2	1693.3	1700.1	1692.7	1692.5
15°	1682.7	1666.1	1673.5	1667.2	1664.2
17.5°	1650.5	1632.6	1641.4	1632.9	1631.6
20°	1626.1	1608.2	1616.8	1604.7	1604.7
22.5°	1596.8	1578.9	1588.9	1572.8	1572.8
25°	1549.6	1531.7	1539.1	1525.1	1523.8
27.5°	1493.8	1476.1	1483.7	1467.9	1467.7
30°	1453.5	1436.9	1445.8	1429.0	1427.4
32.5°	1409.5	1394.1	1400.5	1383.7	1382.1
35°	1338.8	1325.4	1329.6	1314.4	1312.7
37.5°	1264.6	1250.9	1255.6	1242.4	1241.9
40°	1211.8	1202.9	1204.2	1193.4	1190.5
42.5°	1163.1	1152.8	1154.1	1143.3	1142.8
45°	1088.3	1080.6	1080.6	1069.8	1069.8
47.5°	1008.7	1002.9	1001.3	992.4	992.1
50°	953.6	949.2	947.6	939.9	938.3
52.5°	896.1	894.0	888.8	882.4	882.2
55°	806.8	804.0	796.3	791.5	790.3
57.5°	710.1	704.1	695.4	688.8	689.8
60°	640.3	634.2	622.1	619.0	619.0
62.5°	573.1	566.0	553.6	549.4	551.8
65°	477.0	468.0	456.9	454.0	455.4
67.5°	389.5	381.3	369.4	369.4	368.3
70°	333.0	328.5	319.4	319.4	319.4
72.5°	283.0	280.8	274.3	274.1	272.9
75°	217.2	217.2	213.9	212.4	210.8
77.5°	162.6	163.1	161.7	160.2	157.3
80°	128.3	131.5	130.0	128.3	126.7
82.5°	96.7	99.6	99.3	96.7	96.2
85°	50.4	54.8	55.0	55.0	55.0
87.5°	13.4	18.2	19.5	19.5	20.8
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	20.74	22.32	21.10	22.64	22.95	20.57	22.16	20.94	22.48	22.79
	3H	22.05	23.48	22.43	23.81	24.17	21.85	23.28	22.23	23.60	23.96
	4H	22.54	23.88	22.94	24.23	24.60	22.34	23.68	22.73	24.02	24.40
	6H	22.85	24.09	23.26	24.46	24.85	22.66	23.90	23.07	24.26	24.65
	8H	22.98	24.16	23.40	24.55	24.95	22.78	23.97	23.21	24.36	24.76
	12H	23.05	24.18	23.48	24.56	24.99	22.87	24.00	23.30	24.38	24.81
4H	2H	21.21	22.55	21.60	22.90	23.27	21.07	22.41	21.47	22.76	23.14
	3H	22.74	23.86	23.15	24.26	24.66	22.57	23.69	22.98	24.09	24.49
	4H	23.34	24.34	23.77	24.76	25.20	23.17	24.17	23.60	24.59	25.02
	6H	23.77	24.65	24.23	25.09	25.55	23.60	24.48	24.06	24.92	25.38
	8H	23.95	24.77	24.41	25.21	25.68	23.78	24.60	24.24	25.04	25.51
	12H	24.06	24.79	24.54	25.27	25.74	23.91	24.64	24.39	25.12	25.59
8H	4H	23.54	24.36	24.00	24.81	25.27	23.39	24.21	23.85	24.65	25.12
	6H	24.09	24.77	24.59	25.26	25.74	23.94	24.62	24.43	25.11	25.58
	8H	24.34	24.95	24.85	25.46	25.95	24.19	24.80	24.70	25.31	25.80
	12H	24.52	25.06	25.03	25.55	26.12	24.39	24.93	24.89	25.42	25.98
12H	4H	23.56	24.29	24.04	24.77	25.24	23.41	24.14	23.89	24.62	25.09
	6H	24.13	24.74	24.64	25.25	25.74	23.98	24.60	24.49	25.10	25.59
	8H	24.44	24.98	24.95	25.47	26.03	24.29	24.83	24.80	25.33	25.89