

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: P1036289

Luminaire Tested: SQ4R-PP3-125D-B35-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036289
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

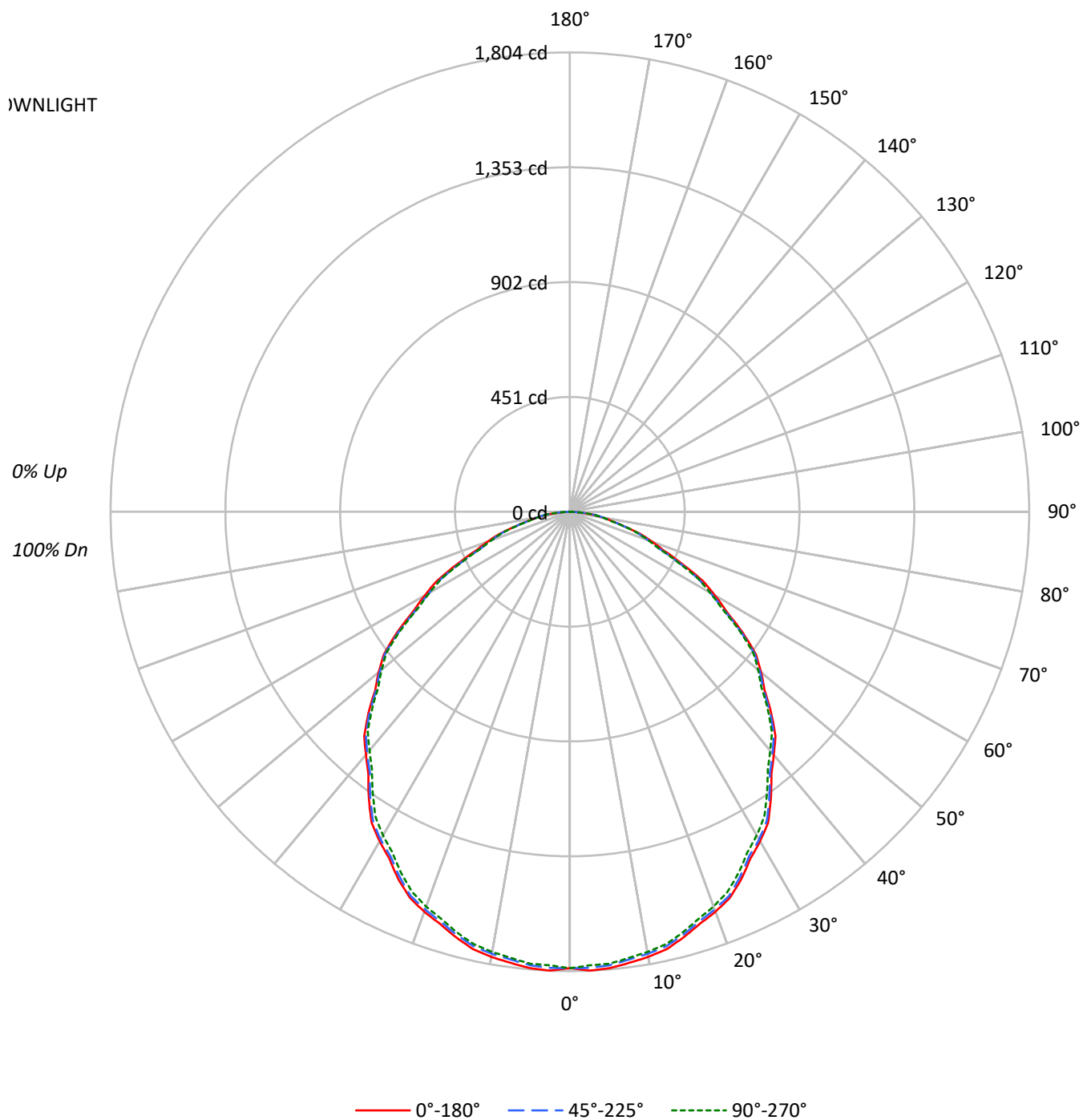
Lumens per Lamp: N/A
Luminaire Lumens: 4587.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1036289

CATALOG NUMBER: SQ4R-PP3-125D-B35-1D-UNV

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°	16537	16537	16537
5°	16659	16555	16498
10°	16630	16514	16441
15°	16521	16430	16339
20°	16410	16317	16195
25°	16215	16105	15945
30°	15916	15832	15631
35°	15500	15393	15197
40°	15002	14908	14738
45°	14595	14494	14347
50°	14069	13980	13844
55°	13340	13166	13066
60°	12145	11800	11741
65°	10704	10252	10217
70°	9234	8856	8856
75°	7956	7839	7725
80°	7008	7098	6918
85°	5483	5992	5992

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14595 cd/sqm

TEST NUMBER: P1036289

CATALOG NUMBER: SQ4R-PP3-125D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.7
10°-20°	483.9	10.5
20°-30°	724.9	15.8
30°-40°	850.2	18.5
40°-50°	852.9	18.6
50°-60°	727.6	15.9
60°-70°	474.5	10.3
70°-80°	238.1	5.2
80°-90°	65.9	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°	1378.3	30.0
0°-40°	2228.6	48.6
0°-60°	3809.1	83.0
0°-90°	4587.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4587.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1799	1782	1788	1781	1781	171
15°	1730	1713	1720	1714	1711	488
25°	1593	1574	1582	1568	1566	732
35°	1376	1362	1367	1351	1349	860
45°	1119	1111	1111	1100	1100	861
55°	829	826	818	814	812	737
65°	490	481	470	467	468	489
75°	223	223	220	218	217	242
85°	52	56	57	57	57	63
90°	0	0	0	0	0	

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CATALOG NUMBER: SQ4R-PP3-125D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1803.6	1788.9	1792.4	1789.8	1782.5
5°	1798.7	1781.9	1787.5	1781.4	1781.4
7.5°	1786.5	1768.1	1773.7	1767.6	1767.3
10°	1775.1	1756.7	1762.7	1756.1	1754.9
12.5°	1758.9	1740.5	1747.5	1739.9	1739.7
15°	1729.6	1712.6	1720.1	1713.7	1710.6
17.5°	1696.5	1678.1	1687.1	1678.4	1677.1
20°	1671.4	1653.0	1661.9	1649.5	1649.5
22.5°	1641.3	1623.0	1633.2	1616.7	1616.7
25°	1592.8	1574.4	1582.0	1567.7	1566.3
27.5°	1535.5	1517.3	1525.1	1508.9	1508.7
30°	1494.0	1476.9	1486.1	1468.8	1467.2
32.5°	1448.8	1433.0	1439.6	1422.2	1420.6
35°	1376.2	1362.4	1366.7	1351.0	1349.3
37.5°	1299.8	1285.7	1290.6	1277.0	1276.5
40°	1245.6	1236.4	1237.8	1226.6	1223.7
42.5°	1195.5	1184.9	1186.3	1175.2	1174.7
45°	1118.6	1110.8	1110.8	1099.6	1099.6
47.5°	1036.8	1030.8	1029.3	1020.1	1019.8
50°	980.2	975.6	974.0	966.1	964.5
52.5°	921.1	919.0	913.6	907.0	906.8
55°	829.3	826.4	818.5	813.6	812.3
57.5°	729.9	723.7	714.7	708.0	709.1
60°	658.2	651.9	639.5	636.3	636.3
62.5°	589.1	581.8	569.0	564.7	567.2
65°	490.3	481.1	469.6	466.7	468.0
67.5°	400.3	391.9	379.7	379.7	378.6
70°	342.3	337.7	328.3	328.3	328.3
72.5°	290.9	288.7	281.9	281.7	280.6
75°	223.2	223.2	219.9	218.3	216.7
77.5°	167.1	167.6	166.3	164.7	161.7
80°	131.9	135.1	133.6	131.9	130.2
82.5°	99.4	102.4	102.1	99.4	98.8
85°	51.8	56.4	56.6	56.6	56.6
87.5°	13.8	18.7	20.1	20.1	21.4
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	20.83	22.42	21.20	22.73	23.05	20.67	22.26	21.04	22.57	22.89
	3H	22.15	23.57	22.52	23.90	24.26	21.95	23.37	22.32	23.70	24.06
	4H	22.63	23.97	23.03	24.32	24.70	22.43	23.77	22.83	24.12	24.50
	6H	22.95	24.19	23.36	24.55	24.95	22.75	23.99	23.16	24.36	24.75
	8H	23.07	24.26	23.50	24.64	25.04	22.88	24.06	23.30	24.45	24.85
	12H	23.14	24.28	23.57	24.66	25.09	22.96	24.10	23.39	24.48	24.91
4H	2H	21.30	22.64	21.70	22.99	23.37	21.17	22.51	21.57	22.86	23.23
	3H	22.84	23.95	23.25	24.35	24.75	22.67	23.78	23.08	24.18	24.58
	4H	23.43	24.44	23.86	24.85	25.29	23.26	24.27	23.69	24.68	25.12
	6H	23.87	24.75	24.32	25.19	25.64	23.70	24.58	24.15	25.02	25.47
	8H	24.04	24.86	24.50	25.31	25.77	23.88	24.70	24.34	25.14	25.61
	12H	24.15	24.89	24.63	25.37	25.84	24.00	24.74	24.48	25.21	25.68
8H	4H	23.64	24.46	24.10	24.90	25.37	23.48	24.30	23.94	24.75	25.21
	6H	24.19	24.87	24.68	25.36	25.83	24.04	24.72	24.53	25.20	25.68
	8H	24.44	25.05	24.95	25.56	26.04	24.29	24.90	24.80	25.41	25.89
	12H	24.62	25.16	25.12	25.65	26.21	24.48	25.02	24.99	25.51	26.08
12H	4H	23.65	24.39	24.14	24.87	25.34	23.50	24.24	23.98	24.71	25.18
	6H	24.23	24.84	24.74	25.35	25.83	24.08	24.69	24.59	25.20	25.69
	8H	24.53	25.08	25.04	25.57	26.13	24.39	24.93	24.90	25.42	25.98