

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: P1036189

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P518604)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-BB-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

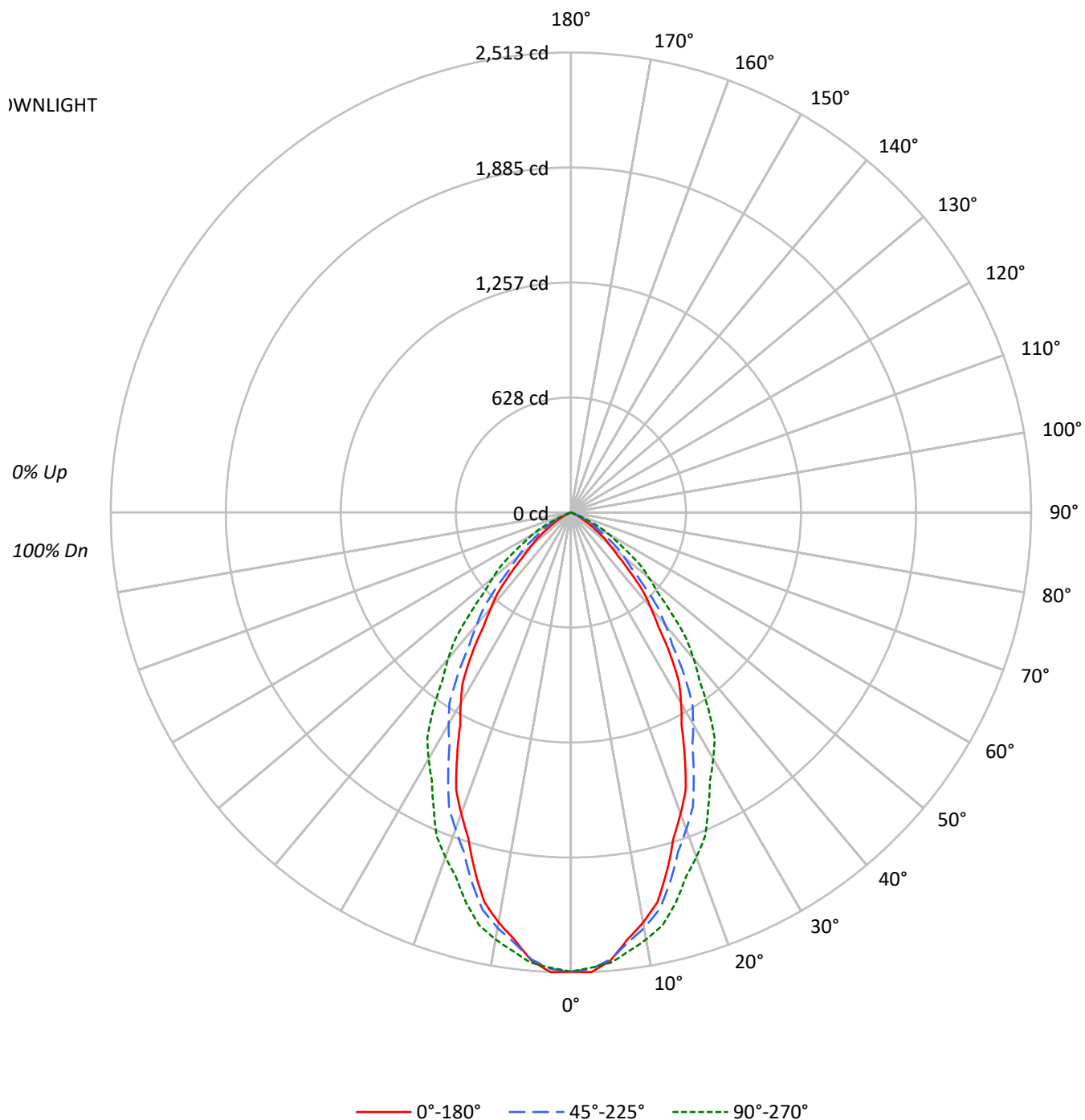
Lumens per Lamp: N/A
Luminaire Lumens: 2991.3 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P1036189

CATALOG NUMBER: SQ4R-BB-125D-B2750-1D-UNV-W2A_3000K

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44		
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23136	23136	23136
5°	22764	22707	22876
10°	21297	21583	22186
15°	19363	19978	21090
20°	17189	18081	19664
25°	14968	16153	18067
30°	12823	14229	16556
35°	10630	12080	14728
40°	8167	9659	12551
45°	5905	7313	10099
50°	4022	5449	8012
55°	2615	3941	6225
60°	1500	2777	4501
65°	397	1696	2277
70°	200	526	650
75°	89	39	0
80°	58	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10099 cd/sqm

TEST NUMBER: P1036189

CATALOG NUMBER: SQ4R-BB-125D-B2750-1D-UNV-W2A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	7.7
10°-20°	585.2	19.6
20°-30°	732.7	24.5
30°-40°	676.7	22.6
40°-50°	454.7	15.2
50°-60°	234.9	7.9
60°-70°	73.6	2.5
70°-80°	4.6	0.2
80°-90°	0.1	0.0
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°	1546.7	51.7
0°-40°	2223.5	74.3
0°-60°	2913.1	97.4
0°-90°	2991.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2458	2433	2452	2460	2470	228
15°	2027	2020	2092	2162	2208	565
25°	1470	1482	1587	1696	1775	674
35°	944	968	1072	1199	1308	585
45°	453	480	560	670	774	355
55°	163	190	245	315	387	152
65°	18	35	78	94	104	31
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CATALOG NUMBER: SQ4R-BB-125D-B2750-1D-UNV-W2A_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2513.4	2489.8	2495.8	2495.8	2489.3
5°	2457.9	2433.0	2451.8	2460.4	2470.0
7.5°	2354.2	2334.6	2370.8	2397.7	2417.6
10°	2273.3	2256.9	2303.8	2340.6	2368.1
12.5°	2180.2	2167.3	2224.2	2275.0	2309.9
15°	2027.2	2020.2	2091.6	2161.5	2208.0
17.5°	1863.3	1863.0	1944.3	2031.7	2087.4
20°	1750.7	1754.3	1841.6	1937.8	2002.8
22.5°	1638.0	1646.3	1739.7	1840.0	1914.6
25°	1470.3	1482.1	1586.7	1695.5	1774.8
27.5°	1309.3	1326.6	1436.8	1549.4	1646.3
30°	1203.6	1223.6	1335.6	1454.4	1554.0
32.5°	1099.4	1123.7	1232.7	1358.5	1459.8
35°	943.8	967.6	1072.5	1198.6	1307.6
37.5°	783.0	806.2	908.6	1033.0	1150.9
40°	678.1	704.2	802.0	922.3	1042.1
42.5°	583.1	609.2	700.9	819.3	932.4
45°	452.6	479.8	560.5	669.7	774.0
47.5°	344.4	373.8	444.7	543.6	638.6
50°	280.2	309.9	379.6	466.6	558.2
52.5°	228.7	257.6	320.5	402.4	486.2
55°	162.6	189.8	245.0	314.7	387.0
57.5°	112.3	135.9	185.4	243.3	300.2
60°	81.3	103.8	150.5	197.5	243.9
62.5°	54.1	74.7	120.3	156.6	187.6
65°	18.2	34.8	77.7	93.6	104.3
67.5°	9.3	11.0	40.6	43.1	46.7
70°	7.4	7.4	19.5	20.6	24.1
72.5°	5.3	5.3	7.6	9.9	10.7
75°	2.5	2.5	1.1	0.0	0.0
77.5°	1.1	1.1	1.1	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	10.84	12.07	11.21	12.38	12.70	15.43	16.66	15.79	16.97	17.29
	3H	10.72	11.80	11.10	12.13	12.50	15.40	16.48	15.78	16.81	17.18
	4H	10.64	11.64	11.05	12.00	12.38	15.32	16.32	15.73	16.68	17.06
	6H	10.55	11.47	10.97	11.84	12.24	15.23	16.15	15.65	16.52	16.92
	8H	10.51	11.37	10.94	11.76	12.17	15.19	16.05	15.62	16.44	16.85
	12H	10.46	11.29	10.89	11.67	12.10	15.14	15.96	15.57	16.35	16.78
4H	2H	11.21	12.21	11.61	12.56	12.95	15.36	16.36	15.77	16.72	17.10
	3H	11.09	11.90	11.51	12.31	12.71	15.34	16.15	15.76	16.56	16.96
	4H	11.00	11.72	11.44	12.14	12.58	15.24	15.96	15.68	16.38	16.83
	6H	10.91	11.53	11.38	11.98	12.44	15.15	15.77	15.62	16.22	16.69
	8H	10.85	11.42	11.32	11.87	12.34	15.09	15.66	15.56	16.11	16.59
	12H	10.80	11.30	11.28	11.78	12.26	15.04	15.54	15.53	16.03	16.50
8H	4H	10.86	11.43	11.33	11.88	12.35	15.09	15.67	15.56	16.11	16.59
	6H	10.75	11.21	11.25	11.71	12.20	14.98	15.45	15.49	15.94	16.43
	8H	10.68	11.10	11.21	11.62	12.11	14.91	15.33	15.44	15.85	16.34
	12H	10.63	11.00	11.15	11.49	12.07	14.86	15.23	15.38	15.73	16.30
12H	4H	10.80	11.31	11.29	11.79	12.27	15.04	15.54	15.53	16.03	16.50
	6H	10.68	11.10	11.21	11.62	12.11	14.91	15.33	15.44	15.85	16.34
	8H	10.63	11.00	11.15	11.49	12.07	14.86	15.23	15.38	15.73	16.30

END OF REPORT