

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P844874

Luminaire Tested: **SQ4P-BB-125U-100D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844874
REPORT IS A COMBINATION OF REPORTS P700105 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-125U-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

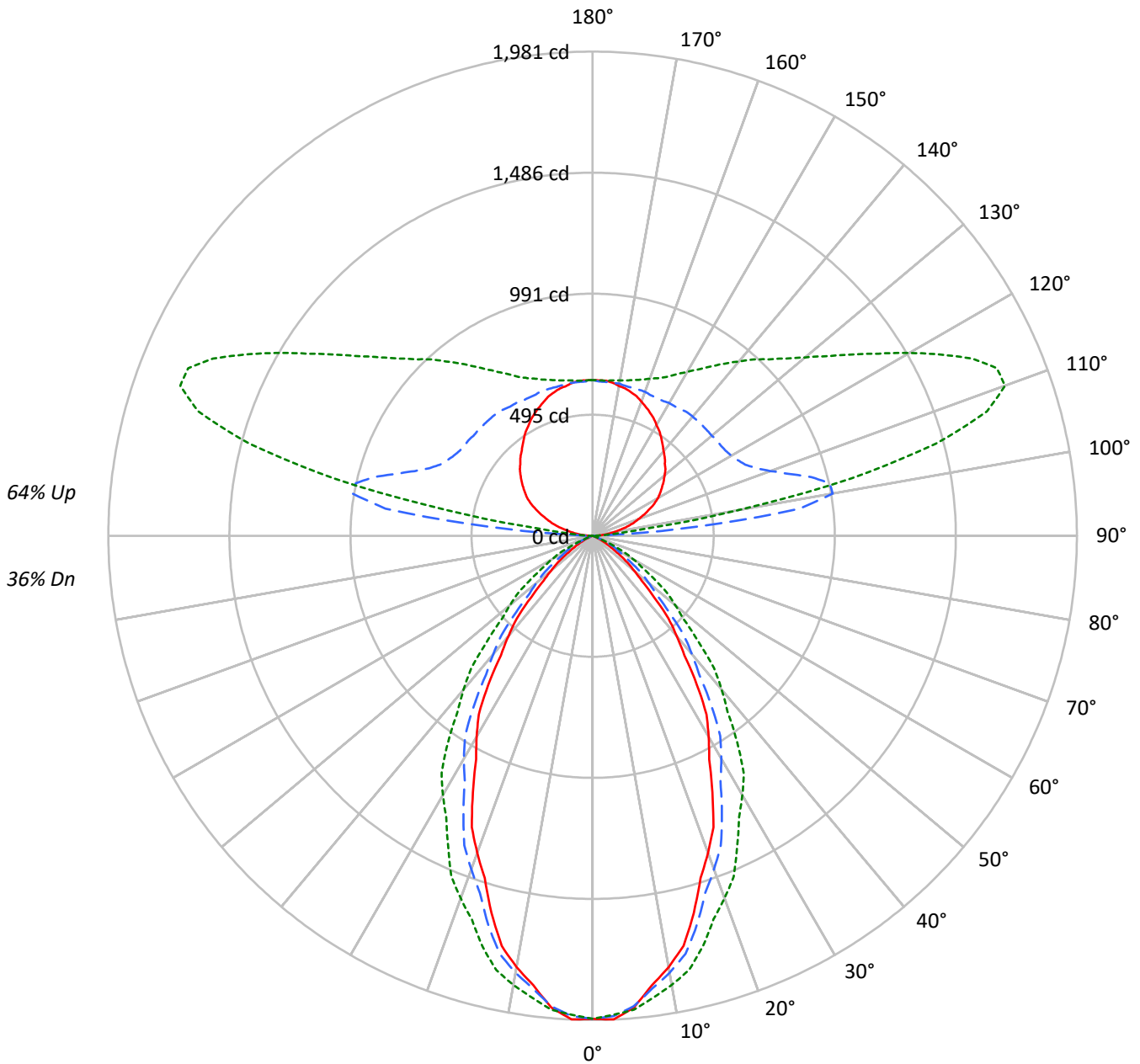
Lumens per Lamp: N/A
Luminaire Lumens: 6489.4 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68.9
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P844874

CATALOG NUMBER: SQ4P-BB-125U-100D-B35-1D-UNV

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36																			
1	96	92	89	86	87	84	81	79	68	66	65	54	53	52	40	40	39	33																			
2	88	82	77	72	80	75	70	67	61	58	56	49	47	45	37	36	35	30																			
3	82	73	67	62	74	67	62	57	55	52	48	44	42	40	34	33	32	27																			
4	75	66	59	54	68	60	54	50	50	46	42	40	38	35	32	30	28	24																			
5	70	59	52	47	63	55	48	44	45	41	38	37	34	32	29	27	26	22																			
6	65	54	46	41	59	49	43	39	41	37	33	34	31	28	27	25	23	20																			
7	60	49	42	37	55	45	39	34	38	33	30	31	28	26	25	23	21	19																			
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	20	17																			
9	52	41	34	30	48	38	32	28	32	28	25	27	24	21	22	20	18	16																			
10	49	38	31	27	45	35	29	25	30	26	22	25	22	20	20	18	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18233	18233	18233
5°	17939	17896	18028
10°	16785	17009	17484
15°	15260	15744	16621
20°	13546	14249	15496
25°	11795	12729	14239
30°	10105	11213	13047
35°	8376	9520	11607
40°	6436	7613	9890
45°	4654	5763	7958
50°	3169	4293	6314
55°	2061	3106	4906
60°	1183	2188	3547
65°	312	1338	1797
70°	159	415	515
75°	71	32	0
80°	48	0	0
85°	0	0	0



TEST NUMBER: P844874

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	2.8
10°-20°	461.2	7.1
20°-30°	577.4	8.9
30°-40°	533.3	8.2
40°-50°	358.3	5.5
50°-60°	185.1	2.9
60°-70°	58.0	0.9
70°-80°	3.7	0.1
80°-90°	1.6	0.0
90°-100°	253.3	3.9
100°-110°	881.3	13.6
110°-120°	853.7	13.2
120°-130°	669.7	10.3
130°-140°	530.1	8.2
140°-150°	409.1	6.3
150°-160°	293.2	4.5
160°-170°	179.4	2.8
170°-180°	60.7	0.9
0°-30°	1218.9	18.8
0°-40°	1752.2	27.0
0°-60°	2295.7	35.4
0°-90°	2358.9	36.4
90°-120°	1988.3	30.6
90°-150°	3597.1	55.4
90°-180°	4130.0	63.6
0°-180°	6489.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1937	1917	1932	1939	1947	180
15°	1598	1592	1648	1704	1740	445
25°	1159	1168	1250	1336	1399	531
35°	744	763	845	945	1030	461
45°	357	378	442	528	610	280
55°	128	150	193	248	305	120
65°	14	28	61	74	82	24
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	10	14	14	10	5	6
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



TEST NUMBER: P844874

CATALOG NUMBER: SQ4P-BB-125U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.2	1976.2	1976.2	1976.2	1976.2
2.5°	1980.7	1962.1	1966.9	1966.9	1961.6
5°	1937.0	1917.3	1932.3	1938.9	1946.6
7.5°	1855.2	1839.8	1868.4	1889.6	1905.2
10°	1791.6	1778.5	1815.5	1844.6	1866.2
12.5°	1718.2	1708.0	1752.8	1792.8	1820.3
15°	1597.6	1592.0	1648.3	1703.5	1740.1
17.5°	1468.4	1468.1	1532.2	1601.0	1645.0
20°	1379.7	1382.4	1451.3	1527.1	1578.3
22.5°	1290.9	1297.4	1371.0	1450.0	1508.9
25°	1158.6	1167.9	1250.4	1336.1	1398.7
27.5°	1031.8	1045.5	1132.2	1221.0	1297.4
30°	948.5	964.3	1052.5	1146.1	1224.7
32.5°	866.4	885.5	971.4	1070.6	1150.4
35°	743.7	762.6	845.2	944.6	1030.5
37.5°	617.1	635.3	716.0	814.1	906.9
40°	534.4	554.9	632.1	726.9	821.2
42.5°	459.5	480.1	552.4	645.7	734.8
45°	356.7	378.1	441.7	527.7	609.9
47.5°	271.5	294.5	350.4	428.3	503.3
50°	220.8	244.2	299.1	367.7	439.9
52.5°	180.3	203.1	252.6	317.1	383.1
55°	128.1	149.5	193.1	248.1	305.0
57.5°	88.6	107.2	146.1	191.8	236.6
60°	64.1	81.8	118.6	155.6	192.2
62.5°	42.7	58.9	94.8	123.4	147.9
65°	14.3	27.5	61.3	73.8	82.3
67.5°	7.3	8.6	32.0	34.0	36.8
70°	5.9	5.9	15.4	16.2	19.1
72.5°	4.1	4.1	6.1	7.8	8.4
75°	2.0	2.0	0.9	0.0	0.0
77.5°	0.9	0.9	0.9	0.0	0.0
80°	0.9	0.9	0.0	0.0	0.0
82.5°	0.2	0.2	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°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



TEST NUMBER: P844874

CATALOG NUMBER: SQ4P-BB-125U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)