

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: P845118

Luminaire Tested: **SQ4P-PP3-100U-125D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845118
REPORT IS A COMBINATION OF REPORTS P700090 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-100U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

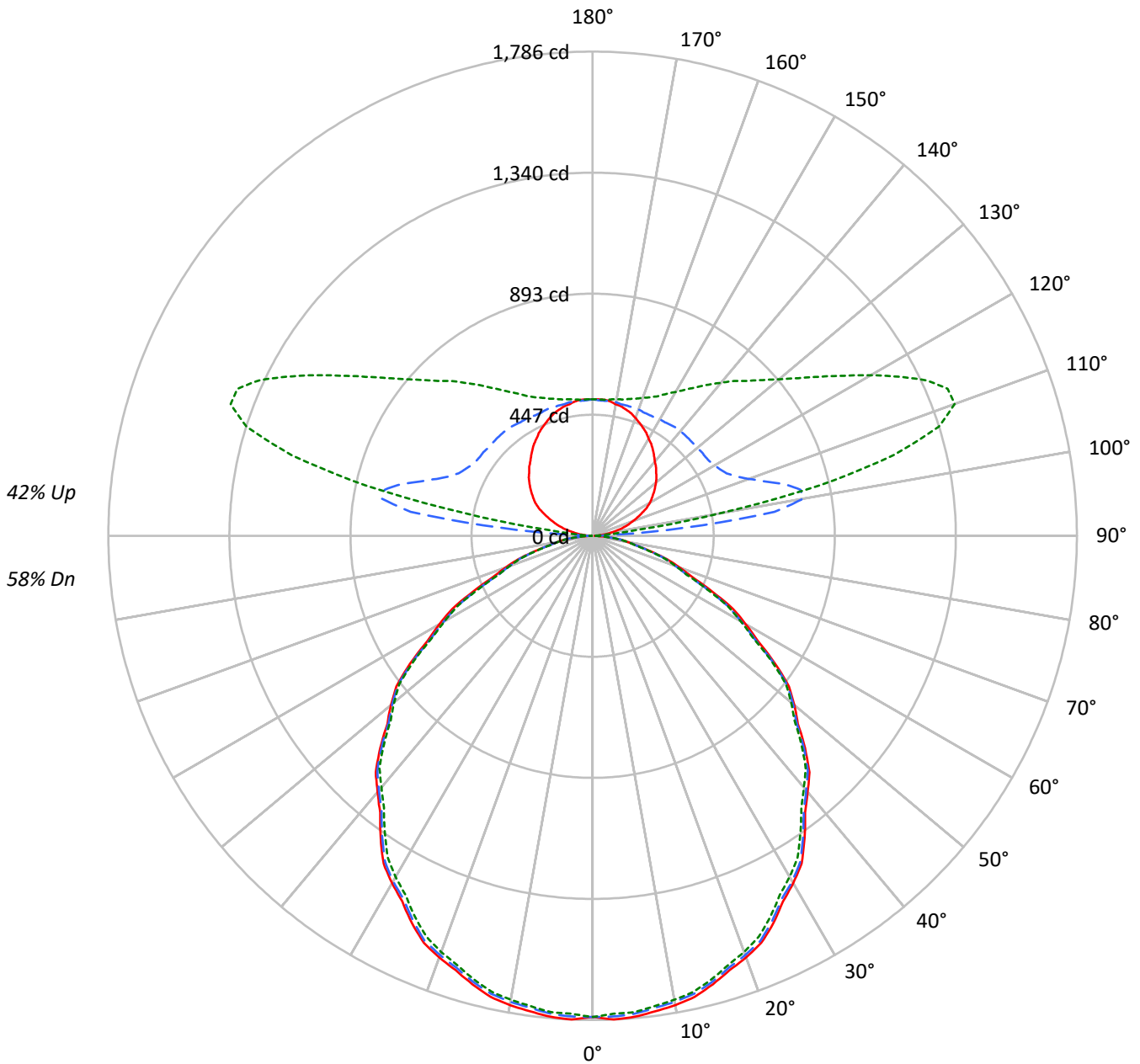
Lumens per Lamp: N/A
Luminaire Lumens: 7812.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.8
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

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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58																			
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	57	55	54	50																			
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42																			
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	45	42	39	36																			
4	76	65	57	51	71	61	54	49	54	48	44	47	42	39	40	37	34	31																			
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27																			
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23																			
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21																			
8	55	43	35	30	52	41	33	29	36	30	26	32	27	23	27	24	21	19																			
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17																			
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16377	16377	16377
5°	16496	16395	16338
10°	16469	16354	16281
15°	16360	16270	16181
20°	16251	16159	16038
25°	16057	15949	15790
30°	15762	15679	15478
35°	15349	15243	15050
40°	14856	14763	14595
45°	14453	14353	14208
50°	13933	13844	13709
55°	13211	13037	12939
60°	12027	11686	11627
65°	10599	10154	10119
70°	9145	8770	8770
75°	7878	7760	7650
80°	6939	7029	6854
85°	5431	5928	5928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	2.1
10°-20°	479.2	6.1
20°-30°	717.8	9.2
30°-40°	842.0	10.8
40°-50°	844.6	10.8
50°-60°	720.5	9.2
60°-70°	469.9	6.0
70°-80°	235.7	3.0
80°-90°	66.5	0.9
90°-100°	200.5	2.6
100°-110°	697.4	8.9
110°-120°	675.6	8.6
120°-130°	530.0	6.8
130°-140°	419.5	5.4
140°-150°	323.7	4.1
150°-160°	232.1	3.0
160°-170°	141.9	1.8
170°-180°	48.0	0.6
0°-30°	1364.9	17.5
0°-40°	2206.9	28.2
0°-60°	3772.1	48.3
0°-90°	4544.2	58.2
90°-120°	1573.5	20.1
90°-150°	2846.7	36.4
90°-180°	3269.0	41.8
0°-180°	7812.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1781	1765	1770	1764	1764	169
15°	1713	1696	1703	1697	1694	483
25°	1577	1559	1567	1552	1551	725
35°	1363	1349	1353	1338	1336	851
45°	1108	1100	1100	1089	1089	853
55°	821	818	810	806	804	730
65°	486	476	465	462	464	484
75°	221	221	218	216	215	240
85°	51	56	56	56	56	60
90°	8	11	11	8	4	7
95°	34	116	338	86	53	36
105°	116	165	733	1237	1150	122
115°	203	244	545	1150	1357	200
125°	274	338	507	857	1022	246
135°	331	372	504	714	808	256
145°	387	414	500	616	669	242
155°	440	455	492	549	568	203
165°	481	485	496	519	522	136
175°	504	504	500	507	504	48
180°	504	504	504	504	504	



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CATALOG NUMBER: SQ4P-PP3-100U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1786.1	1771.5	1775.0	1772.4	1765.1
5°	1781.2	1764.6	1770.2	1764.1	1764.1
7.5°	1769.1	1750.9	1756.5	1750.4	1750.1
10°	1757.9	1739.7	1745.6	1739.1	1737.8
12.5°	1741.8	1723.6	1730.6	1723.0	1722.8
15°	1712.8	1696.0	1703.4	1697.0	1694.0
17.5°	1680.1	1661.8	1670.8	1662.1	1660.8
20°	1655.2	1636.9	1645.8	1633.5	1633.5
22.5°	1625.4	1607.2	1617.4	1601.0	1601.0
25°	1577.3	1559.1	1566.7	1552.4	1551.1
27.5°	1520.6	1502.5	1510.3	1494.2	1494.0
30°	1479.5	1462.6	1471.7	1454.6	1452.9
32.5°	1434.7	1419.1	1425.6	1408.4	1406.8
35°	1362.8	1349.1	1353.4	1337.9	1336.2
37.5°	1287.2	1273.3	1278.1	1264.6	1264.1
40°	1233.5	1224.4	1225.8	1214.7	1211.8
42.5°	1183.9	1173.4	1174.8	1163.7	1163.3
45°	1107.7	1100.0	1100.0	1088.9	1088.9
47.5°	1026.7	1020.8	1019.3	1010.2	1009.9
50°	970.7	966.2	964.5	956.8	955.1
52.5°	912.2	910.0	904.7	898.2	898.0
55°	821.3	818.4	810.5	805.7	804.4
57.5°	722.8	716.7	707.8	701.1	702.2
60°	651.8	645.6	633.3	630.1	630.1
62.5°	583.4	576.1	563.5	559.2	561.7
65°	485.5	476.4	465.1	462.1	463.5
67.5°	396.4	388.1	376.0	376.0	374.9
70°	339.0	334.4	325.1	325.1	325.1
72.5°	288.1	285.9	279.2	279.0	277.8
75°	221.0	221.0	217.7	216.2	214.6
77.5°	165.5	166.0	164.6	163.1	160.1
80°	130.6	133.8	132.3	130.6	129.0
82.5°	98.5	101.4	101.1	98.5	97.9
85°	51.3	55.8	56.0	56.0	56.0
87.5°	13.7	18.5	19.9	19.9	21.2
90°	7.6	11.2	11.2	7.6	3.8
92.5°	18.8	56.4	52.6	22.6	18.8
95°	33.8	116.5	338.3	86.4	52.6
97.5°	52.6	131.6	676.6	308.3	165.4
100°	71.4	139.1	789.3	740.5	477.4
102.5°	94.0	150.3	785.5	1041.2	856.9
105°	116.5	165.4	732.9	1236.6	1150.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.4	221.7	571.4	1244.1	1417.1
115°	202.9	244.3	545.0	1150.2	1356.9
117.5°	225.5	270.7	530.0	1063.7	1270.4
120°	244.3	293.1	518.7	981.0	1184.0
122.5°	259.3	315.7	511.2	913.3	1097.6
125°	274.3	338.3	507.4	856.9	1022.4
127.5°	289.5	353.3	507.4	815.7	954.7
130°	304.5	360.9	503.6	774.3	898.3
132.5°	319.5	364.6	503.6	744.2	849.5
135°	330.7	372.1	503.6	714.2	808.1
137.5°	345.8	379.6	503.6	687.8	774.3
140°	357.1	390.9	503.6	661.5	736.7
142.5°	372.1	402.2	503.6	635.2	702.9
145°	387.1	413.5	499.9	616.4	669.0
147.5°	402.2	424.7	496.2	597.6	639.0
150°	413.5	436.0	496.2	578.8	612.6
152.5°	428.5	447.3	492.4	560.0	590.2
155°	439.8	454.8	492.4	548.8	567.6
157.5°	451.0	466.1	492.4	537.5	552.6
160°	462.3	473.6	496.2	530.0	541.2
162.5°	473.6	481.1	496.2	522.4	530.0
165°	481.1	484.9	496.2	518.7	522.4
167.5°	488.6	492.4	496.2	515.0	515.0
170°	492.4	496.2	499.9	511.2	511.2
172.5°	499.9	499.9	499.9	507.4	507.4
175°	503.6	503.6	499.9	507.4	503.6
177.5°	503.6	503.6	499.9	507.4	503.6
180°	503.6	503.6	503.6	503.6	503.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	139.1	184.2	665.3	1323.1	1338.1
110°	157.9	202.9	612.6	1311.8	1420.7



(END OF REPORT)