

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: P845214

Luminaire Tested: **SQ4P-PR1-125U-125D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845214
REPORT IS A COMBINATION OF REPORTS P700122 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-125U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

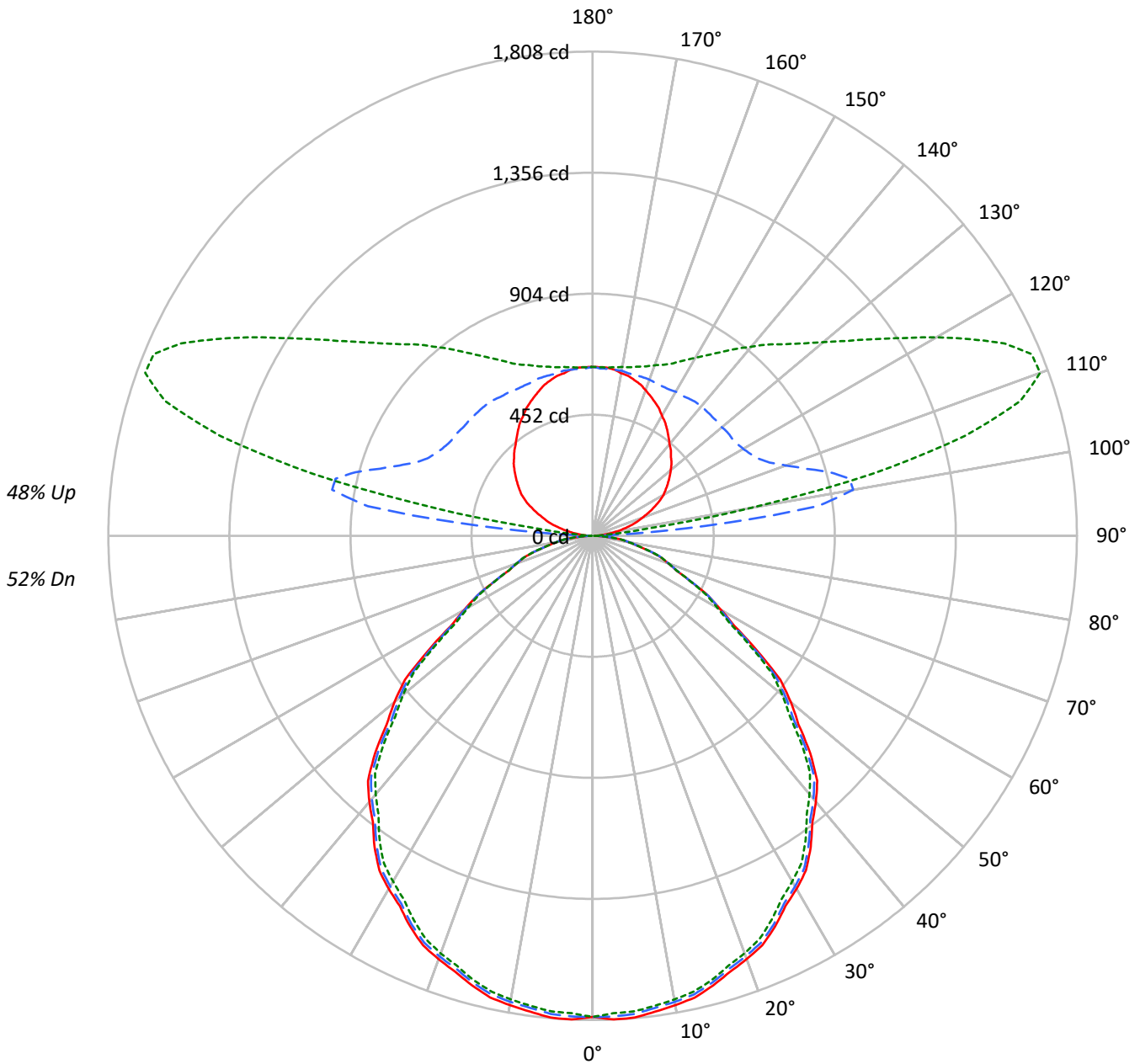
Lumens per Lamp: N/A
Luminaire Lumens: 8583.3 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
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					20					
RC	80					70					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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52								
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45								
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	42	38								
3	82	73	66	60	76	68	62	57	58	54	50	49	46	43	41	39	36	32								
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28								
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	25								
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	24	22								
7	59	47	39	34	55	44	37	32	38	33	28	33	28	25	28	24	22	19								
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	20	17								
9	51	39	32	26	47	37	30	25	32	26	23	28	23	20	24	20	18	16								
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	18	16	14								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16726	16597	16511
10°	16672	16557	16470
15°	16601	16497	16407
20°	16516	16408	16289
25°	16400	16291	16101
30°	16222	16108	15878
35°	15985	15844	15617
40°	15617	15450	15172
45°	14984	14721	14417
50°	13861	13528	13260
55°	12096	11826	11577
60°	10195	10110	9909
65°	8818	8852	8783
70°	8095	8139	8139
75°	7778	7778	7835
80°	7311	7401	7311
85°	5896	6553	6553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	2.0
10°-20°	486.1	5.7
20°-30°	733.2	8.5
30°-40°	873.6	10.2
40°-50°	861.3	10.0
50°-60°	658.3	7.7
60°-70°	407.3	4.7
70°-80°	231.4	2.7
80°-90°	71.9	0.8
90°-100°	250.8	2.9
100°-110°	872.7	10.2
110°-120°	845.4	9.8
120°-130°	663.2	7.7
130°-140°	524.9	6.1
140°-150°	405.1	4.7
150°-160°	290.4	3.4
160°-170°	177.6	2.1
170°-180°	60.1	0.7
0°-30°	1389.3	16.2
0°-40°	2262.9	26.4
0°-60°	3782.5	44.1
0°-90°	4493.1	52.3
90°-120°	1969.0	22.9
90°-150°	3562.1	41.5
90°-180°	4090.0	47.7
0°-180°	8583.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1806	1786	1792	1786	1783	171
15°	1738	1720	1727	1721	1718	490
25°	1611	1591	1600	1583	1582	741
35°	1419	1402	1407	1388	1387	886
45°	1148	1133	1128	1108	1105	880
55°	752	740	735	723	720	674
65°	404	401	406	402	402	409
75°	218	218	218	220	220	230
85°	56	59	62	62	62	65
90°	9	14	14	9	5	8
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



TEST NUMBER: P845214

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.6	1796.6	1796.6	1796.6	1796.6
2.5°	1807.9	1792.1	1796.6	1793.0	1784.4
5°	1806.0	1786.3	1792.1	1785.7	1782.8
7.5°	1792.1	1772.7	1778.5	1772.1	1770.5
10°	1779.6	1761.5	1767.3	1761.2	1758.0
12.5°	1766.0	1746.7	1753.7	1746.3	1743.3
15°	1738.0	1719.8	1727.1	1720.9	1717.7
17.5°	1707.0	1687.5	1695.0	1687.8	1683.8
20°	1682.2	1664.1	1671.2	1660.6	1659.0
22.5°	1655.1	1636.8	1644.1	1629.7	1629.4
25°	1611.0	1591.3	1600.3	1583.3	1581.6
27.5°	1558.7	1540.6	1547.8	1530.4	1528.8
30°	1522.7	1504.6	1512.0	1493.3	1490.4
32.5°	1481.9	1465.1	1471.2	1452.5	1450.7
35°	1419.2	1402.4	1406.7	1388.3	1386.6
37.5°	1347.7	1332.5	1334.9	1314.3	1313.0
40°	1296.7	1281.8	1282.8	1261.2	1259.7
42.5°	1241.3	1226.1	1224.7	1203.1	1201.5
45°	1148.4	1133.2	1128.2	1107.8	1104.9
47.5°	1042.5	1027.3	1018.0	1001.4	999.3
50°	965.7	950.5	942.5	928.4	923.8
52.5°	882.7	867.5	860.8	848.0	843.5
55°	752.0	740.0	735.2	722.6	719.7
57.5°	628.0	620.0	618.4	606.3	605.0
60°	552.5	547.9	547.9	537.0	537.0
62.5°	488.2	484.7	487.1	479.9	478.8
65°	403.9	400.9	405.5	402.3	402.3
67.5°	337.4	337.4	340.1	338.8	338.8
70°	300.1	300.1	301.7	301.7	301.7
72.5°	266.8	265.7	269.7	269.4	268.3
75°	218.2	218.2	218.2	219.8	219.8
77.5°	170.0	170.2	171.5	171.2	170.0
80°	137.6	139.3	139.3	137.6	137.6
82.5°	105.6	107.0	107.0	106.7	105.6
85°	55.7	58.7	61.9	61.9	61.9
87.5°	16.0	20.8	24.8	24.8	23.5
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



TEST NUMBER: P845214

CATALOG NUMBER: SQ4P-PR1-125U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)