

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: P845165

Luminaire Tested: **SQ4P-PR1-050U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845165
REPORT IS A COMBINATION OF REPORTS P700206 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-050U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

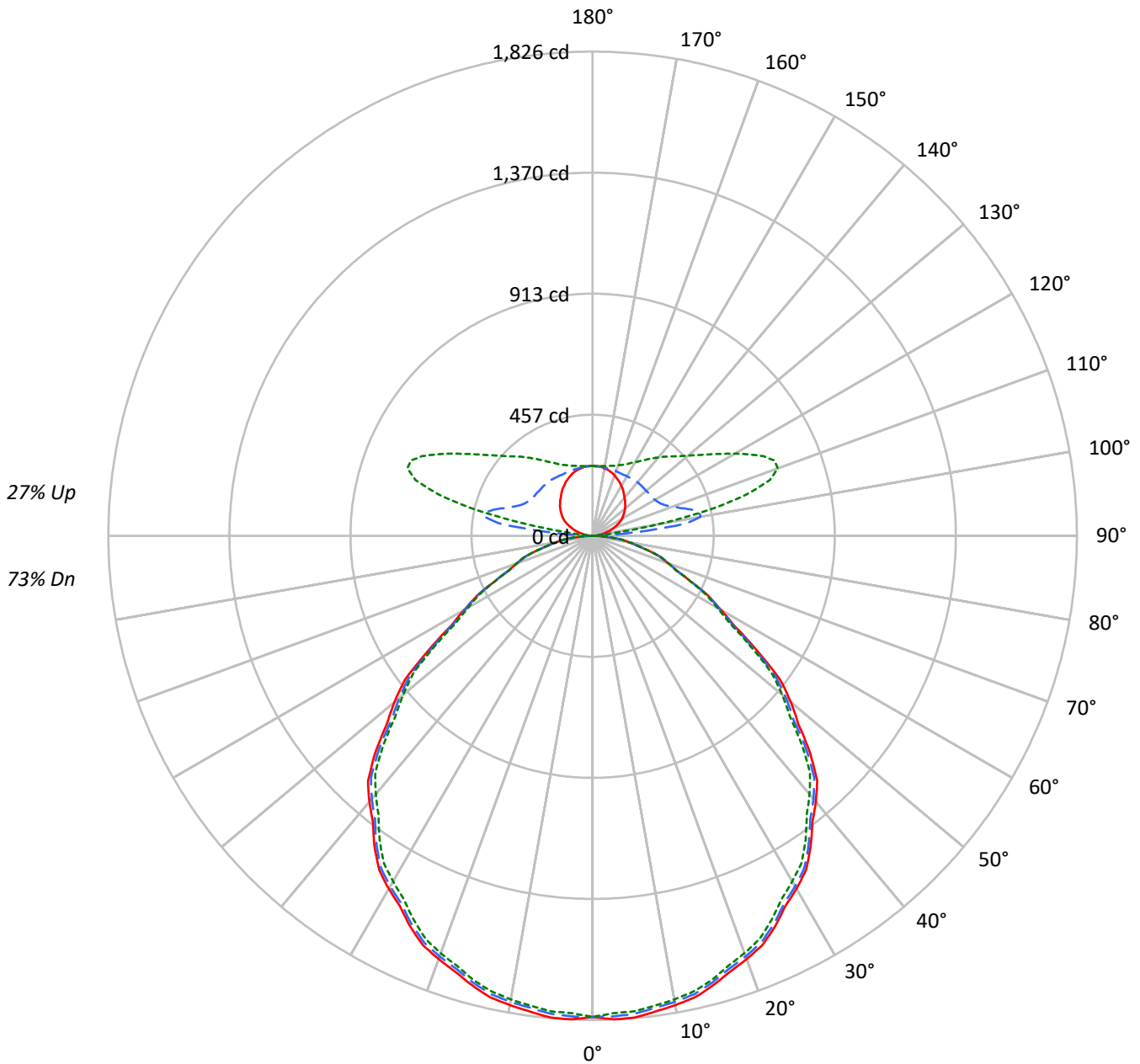
Lumens per Lamp: N/A
Luminaire Lumens: 6246.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.8
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

TEST NUMBER: P845165

CATALOG NUMBER: SQ4P-PR1-050U-125D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845165

CATALOG NUMBER: SQ4P-PR1-050U-125D-B35-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73																											
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	69	67	66	62																											
2	94	87	81	76	89	83	77	73	75	71	67	68	64	61	61	58	56	53																											
3	86	77	69	64	82	73	67	61	66	61	57	60	56	52	54	51	48	45																											
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	49	45	42	39																											
5	73	61	53	47	69	58	51	45	53	47	42	49	44	40	44	40	37	34																											
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	36	32	30																											
7	63	50	42	36	59	48	40	35	44	38	33	40	35	31	37	32	29	27																											
8	58	46	38	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24																											
9	54	42	34	29	51	40	33	28	37	31	27	34	29	25	31	27	24	22																											
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	25	21	20																											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16739	16739	16739
5°	16891	16760	16673
10°	16835	16719	16631
15°	16764	16658	16567
20°	16678	16569	16449
25°	16561	16451	16258
30°	16381	16267	16034
35°	16141	15999	15771
40°	15770	15602	15320
45°	15132	14864	14559
50°	13996	13662	13390
55°	12215	11942	11691
60°	10295	10210	10005
65°	8905	8938	8868
70°	8176	8217	8217
75°	7857	7857	7910
80°	7385	7470	7385
85°	5960	6616	6616



TEST NUMBER: P845165

CATALOG NUMBER: SQ4P-PR1-050U-125D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.7
10°-20°	490.9	7.9
20°-30°	740.4	11.9
30°-40°	882.2	14.1
40°-50°	869.8	13.9
50°-60°	664.7	10.6
60°-70°	411.3	6.6
70°-80°	233.6	3.7
80°-90°	71.7	1.1
90°-100°	104.9	1.7
100°-110°	364.9	5.8
110°-120°	353.5	5.7
120°-130°	277.3	4.4
130°-140°	219.5	3.5
140°-150°	169.4	2.7
150°-160°	121.4	1.9
160°-170°	74.3	1.2
170°-180°	25.1	0.4
0°-30°	1402.9	22.5
0°-40°	2285.1	36.6
0°-60°	3819.6	61.1
0°-90°	4536.2	72.6
90°-120°	823.3	13.2
90°-150°	1489.4	23.8
90°-180°	1710.0	27.4
0°-180°	6246.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1824	1804	1810	1803	1800	173
15°	1755	1737	1744	1738	1734	495
25°	1627	1607	1616	1599	1597	749
35°	1433	1416	1420	1402	1400	894
45°	1160	1144	1139	1119	1116	888
55°	759	747	742	730	727	680
65°	408	405	409	406	406	413
75°	220	220	220	222	222	233
85°	56	59	62	62	62	65
90°	4	6	6	4	2	5
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



TEST NUMBER: P845165

CATALOG NUMBER: SQ4P-PR1-050U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1825.6	1809.7	1814.3	1810.5	1801.9
5°	1823.8	1803.8	1809.7	1803.2	1800.3
7.5°	1809.7	1790.1	1796.0	1789.5	1787.8
10°	1797.0	1778.7	1784.6	1778.4	1775.2
12.5°	1783.3	1763.9	1770.9	1763.4	1760.4
15°	1755.1	1736.7	1744.0	1737.7	1734.5
17.5°	1723.7	1704.1	1711.6	1704.4	1700.4
20°	1698.7	1680.4	1687.6	1676.9	1675.3
22.5°	1671.3	1652.9	1660.2	1645.7	1645.4
25°	1626.8	1606.9	1616.0	1598.8	1597.1
27.5°	1574.0	1555.7	1563.0	1545.4	1543.8
30°	1537.6	1519.3	1526.9	1508.0	1505.0
32.5°	1496.4	1479.5	1485.7	1466.8	1464.9
35°	1433.1	1416.2	1420.5	1401.9	1400.2
37.5°	1360.9	1345.5	1348.0	1327.2	1325.9
40°	1309.4	1294.3	1295.4	1273.6	1272.0
42.5°	1253.4	1238.1	1236.7	1214.9	1213.3
45°	1159.7	1144.3	1139.2	1118.7	1115.8
47.5°	1052.7	1037.4	1028.0	1011.3	1009.1
50°	975.1	959.8	951.8	937.5	932.9
52.5°	891.4	876.0	869.3	856.3	851.7
55°	759.4	747.2	742.4	729.7	726.8
57.5°	634.1	626.1	624.4	612.3	610.9
60°	557.9	553.3	553.3	542.2	542.2
62.5°	493.0	489.5	491.9	484.6	483.5
65°	407.9	404.8	409.4	406.2	406.2
67.5°	340.7	340.7	343.5	342.1	342.1
70°	303.1	303.1	304.6	304.6	304.6
72.5°	269.4	268.3	272.3	272.0	271.0
75°	220.4	220.4	220.4	221.9	221.9
77.5°	171.6	171.8	173.2	172.9	171.6
80°	139.0	140.6	140.6	139.0	139.0
82.5°	106.7	108.0	108.0	107.7	106.7
85°	56.3	59.3	62.5	62.5	62.5
87.5°	16.1	21.0	25.1	25.1	23.7
90°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



TEST NUMBER: P845165

CATALOG NUMBER: SQ4P-PR1-050U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)