

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: P844997

Luminaire Tested: **SQ4P-PC3-050U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844997
REPORT IS A COMBINATION OF REPORTS P700198 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-050U-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

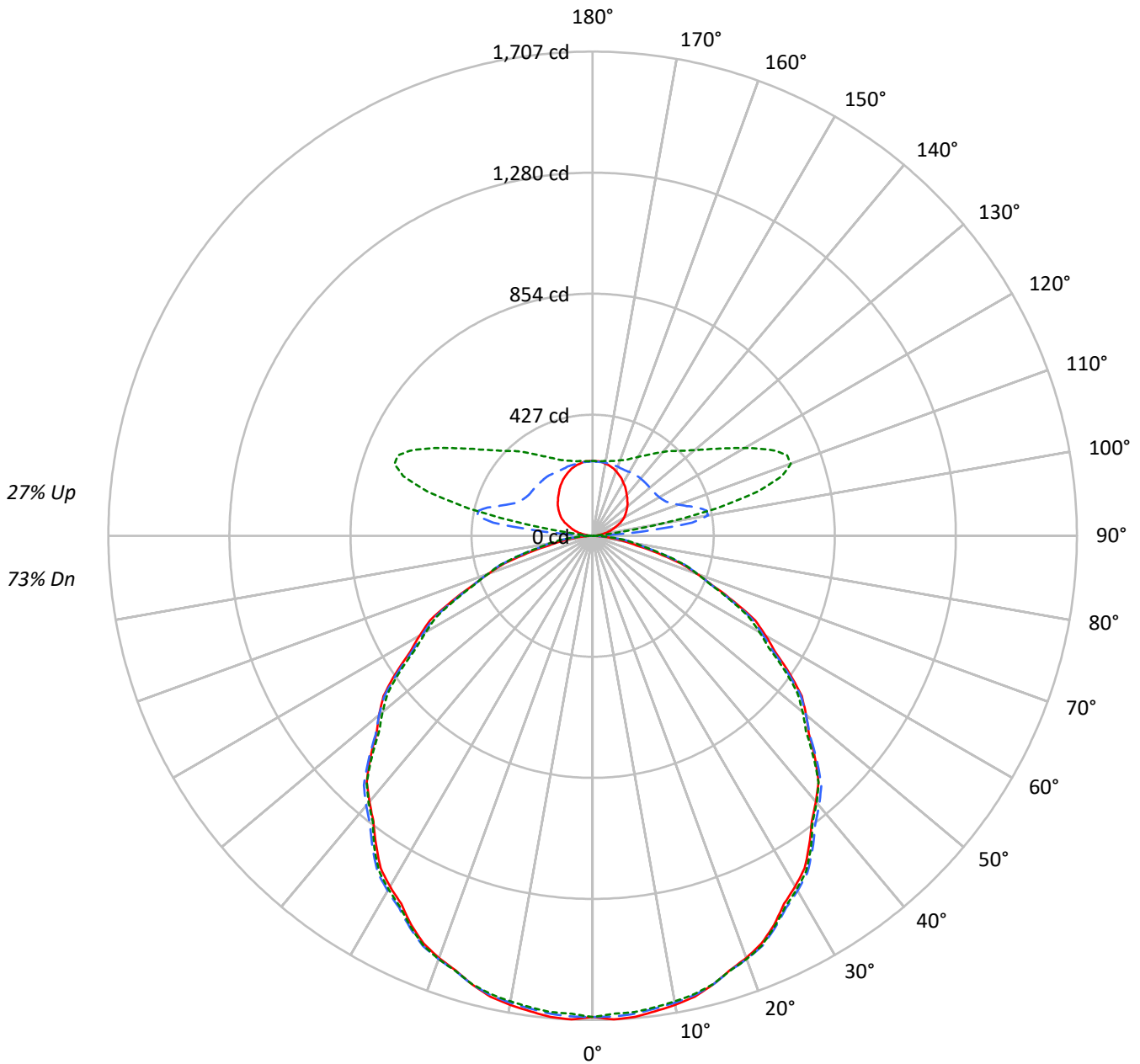
Lumens per Lamp: N/A
Luminaire Lumens: 6341.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73				73															
1	103	99	95	91	98	94	90	87	85	82	79	76	74	72	68	67	66	62				62															
2	94	86	80	74	89	82	76	71	74	70	66	67	63	60	60	58	55	52				52															
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	44				44															
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	48	44	40	37				37															
5	72	60	51	45	68	57	49	44	52	46	41	47	42	38	43	39	35	32				32															
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31	28				28															
7	61	49	40	35	58	47	39	34	43	36	31	39	34	29	36	31	27	25				25															
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	33	28	25	22				22															
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	30	26	22	20				20															
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18				18															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15652	15652	15652
5°	15773	15669	15612
10°	15734	15661	15615
15°	15651	15651	15635
20°	15548	15593	15593
25°	15402	15512	15465
30°	15212	15396	15330
35°	14989	15216	15109
40°	14738	14948	14797
45°	14473	14574	14349
50°	14094	14094	13868
55°	13647	13470	13267
60°	12987	12727	12522
65°	12003	11765	11658
70°	10512	10593	10556
75°	8456	9357	9411
80°	6014	7927	8012
85°	3663	6648	6648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	2.5
10°-20°	460.8	7.3
20°-30°	697.8	11.0
30°-40°	836.6	13.2
40°-50°	853.0	13.5
50°-60°	744.6	11.7
60°-70°	533.1	8.4
70°-80°	274.6	4.3
80°-90°	70.1	1.1
90°-100°	104.9	1.7
100°-110°	364.9	5.8
110°-120°	353.5	5.6
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°	1319.2	20.8
0°-40°	2155.8	34.0
0°-60°	3753.4	59.2
0°-90°	4631.2	73.0
90°-120°	823.3	13.0
90°-150°	1489.4	23.5
90°-180°	1710.0	27.0
0°-180°	6341.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1703	1686	1692	1687	1686	162
15°	1639	1625	1639	1639	1637	462
25°	1513	1502	1524	1519	1519	696
35°	1331	1327	1351	1342	1342	832
45°	1109	1106	1117	1103	1100	854
55°	848	838	837	825	825	756
65°	550	538	539	534	534	544
75°	237	248	262	264	264	256
85°	35	53	63	64	63	47
90°	4	6	6	4	2	4
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1706.8	1691.9	1696.5	1692.7	1686.6
5°	1703.1	1686.0	1691.9	1687.0	1685.7
7.5°	1690.6	1673.8	1681.7	1678.4	1676.8
10°	1679.5	1662.4	1671.7	1668.4	1666.8
12.5°	1664.3	1648.6	1659.0	1655.9	1655.4
15°	1638.6	1624.8	1638.6	1638.6	1636.9
17.5°	1606.1	1593.7	1608.3	1609.3	1608.3
20°	1583.6	1569.8	1588.2	1586.6	1588.2
22.5°	1556.0	1544.7	1564.4	1560.3	1562.0
25°	1513.0	1502.1	1523.8	1519.2	1519.2
27.5°	1462.1	1454.1	1478.0	1472.8	1472.8
30°	1427.9	1420.4	1445.2	1439.0	1439.0
32.5°	1390.2	1385.2	1408.9	1401.4	1401.4
35°	1330.8	1327.4	1351.0	1341.5	1341.5
37.5°	1269.0	1266.3	1287.7	1276.2	1272.5
40°	1223.7	1222.4	1241.1	1228.6	1228.6
42.5°	1178.5	1176.9	1193.5	1178.3	1178.3
45°	1109.2	1106.0	1117.0	1102.6	1099.7
47.5°	1033.4	1030.4	1037.2	1021.7	1020.1
50°	981.9	978.7	981.9	967.6	966.2
52.5°	929.1	923.5	924.0	909.9	909.6
55°	848.4	837.6	837.4	824.8	824.8
57.5°	762.8	748.8	750.1	739.3	737.6
60°	703.8	688.3	689.7	680.2	678.6
62.5°	645.9	628.2	631.8	621.2	620.9
65°	549.8	537.5	538.9	534.0	534.0
67.5°	457.4	446.0	454.4	450.6	450.3
70°	389.7	381.8	392.7	392.7	391.3
72.5°	326.8	326.5	339.9	339.9	340.9
75°	237.2	248.1	262.5	264.0	264.0
77.5°	158.4	177.4	193.4	193.9	193.7
80°	113.2	134.6	149.2	152.5	150.8
82.5°	76.6	99.4	111.6	114.6	113.2
85°	34.6	53.0	62.8	64.5	62.8
87.5°	10.0	21.1	25.1	25.1	22.7
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



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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)