

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: P844903

Luminaire Tested: **SQ4P-F-025U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844903
REPORT IS A COMBINATION OF REPORTS P700166 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-025U-125D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

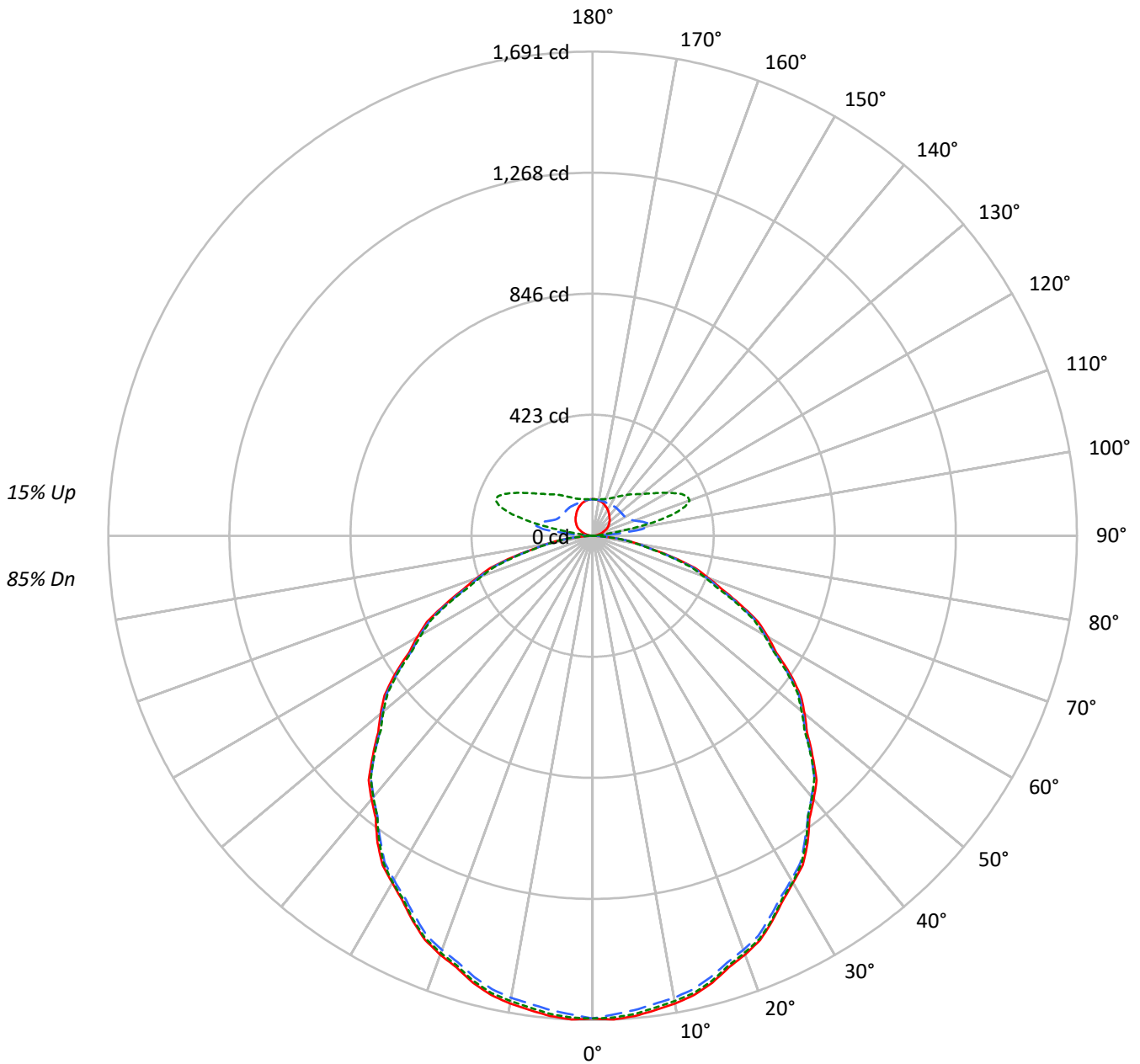
Lumens per Lamp: N/A
Luminaire Lumens: 5429.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.8
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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	101	97	93	101	97	94	90	90	87	85	84	81	79	78	76	74	71																			
2	96	88	82	76	92	85	79	74	79	74	70	73	70	66	68	65	62	60																			
3	88	77	70	63	84	75	68	62	70	64	59	65	60	56	60	56	53	50																			
4	80	69	60	54	77	66	58	52	62	55	50	58	52	48	54	49	46	43																			
5	74	61	52	46	71	59	51	45	55	49	43	52	46	41	49	44	40	37																			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33																			
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29																			
8	59	45	37	31	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	42	34	28	53	40	33	28	38	32	27	36	30	26	34	29	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	32	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15554	15554	15554
5°	15593	15405	15530
10°	15539	15348	15455
15°	15433	15239	15370
20°	15286	15110	15222
25°	15115	14933	15072
30°	14906	14786	14881
35°	14745	14567	14641
40°	14464	14324	14352
45°	14163	14046	14046
50°	13864	13736	13672
55°	13542	13359	13288
60°	13037	12828	12745
65°	12413	12169	12020
70°	11567	11319	11076
75°	10373	10056	9810
80°	8395	8283	8033
85°	4986	5748	5970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.9
10°-20°	453.0	8.3
20°-30°	680.3	12.5
30°-40°	812.1	15.0
40°-50°	832.2	15.3
50°-60°	742.2	13.7
60°-70°	552.7	10.2
70°-80°	300.0	5.5
80°-90°	69.8	1.3
90°-100°	50.8	0.9
100°-110°	176.7	3.3
110°-120°	171.2	3.2
120°-130°	134.2	2.5
130°-140°	106.3	2.0
140°-150°	82.0	1.5
150°-160°	58.8	1.1
160°-170°	36.0	0.7
170°-180°	12.2	0.2
0°-30°	1292.3	23.8
0°-40°	2104.5	38.8
0°-60°	3678.9	67.8
0°-90°	4601.5	84.7
90°-120°	398.6	7.3
90°-150°	721.1	13.3
90°-180°	828.0	15.3
0°-180°	5429.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1684	1681	1663	1679	1677	160
15°	1616	1611	1595	1609	1609	455
25°	1485	1481	1467	1476	1481	684
35°	1309	1305	1293	1293	1300	817
45°	1086	1088	1076	1074	1076	838
55°	842	842	830	824	826	750
65°	569	567	557	551	551	563
75°	291	289	282	278	275	308
85°	47	52	54	56	56	66
90°	2	3	3	2	1	2
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.8	1685.8	1685.8	1685.8	1685.8
2.5°	1691.1	1687.7	1673.2	1685.8	1684.2
5°	1683.7	1681.3	1663.4	1678.9	1676.8
7.5°	1671.3	1667.1	1649.2	1664.7	1662.3
10°	1658.6	1654.1	1638.3	1651.8	1649.7
12.5°	1642.6	1640.0	1622.3	1635.8	1635.2
15°	1615.7	1611.2	1595.4	1609.1	1609.1
17.5°	1580.6	1578.1	1562.6	1575.4	1574.1
20°	1556.9	1552.8	1539.0	1550.4	1550.4
22.5°	1528.3	1525.6	1512.2	1521.4	1523.2
25°	1484.8	1480.6	1466.9	1476.1	1480.6
27.5°	1437.2	1433.7	1422.4	1428.1	1431.4
30°	1399.2	1399.2	1387.9	1390.2	1396.8
32.5°	1364.9	1364.9	1351.8	1354.2	1357.3
35°	1309.1	1304.7	1293.3	1293.3	1299.9
37.5°	1243.8	1241.7	1234.6	1233.3	1235.1
40°	1200.9	1198.5	1189.3	1191.6	1191.6
42.5°	1157.4	1155.0	1145.9	1142.9	1146.3
45°	1085.5	1087.9	1076.5	1074.2	1076.5
47.5°	1014.9	1014.9	1005.7	999.3	1002.8
50°	965.9	965.9	957.0	952.5	952.5
52.5°	915.4	917.2	906.1	900.0	901.9
55°	841.9	841.9	830.5	823.9	826.1
57.5°	760.5	760.5	749.3	742.6	746.5
60°	706.5	706.5	695.2	688.3	690.7
62.5°	652.2	652.2	641.1	634.2	634.5
65°	568.6	566.6	557.4	550.6	550.6
67.5°	488.4	482.6	475.7	466.8	466.8
70°	428.8	426.4	419.6	410.6	410.6
72.5°	374.5	370.6	363.8	356.6	356.6
75°	291.0	288.7	282.1	277.6	275.2
77.5°	208.6	206.8	206.2	199.9	201.7
80°	158.0	158.0	155.9	151.2	151.2
82.5°	112.7	114.6	110.6	109.6	107.8
85°	47.1	51.6	54.3	56.4	56.4
87.5°	9.2	14.2	12.7	14.5	14.5
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)