

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: P844848

Luminaire Tested: **SQ4P-BB-0U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P844848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P518604)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-BB-0U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

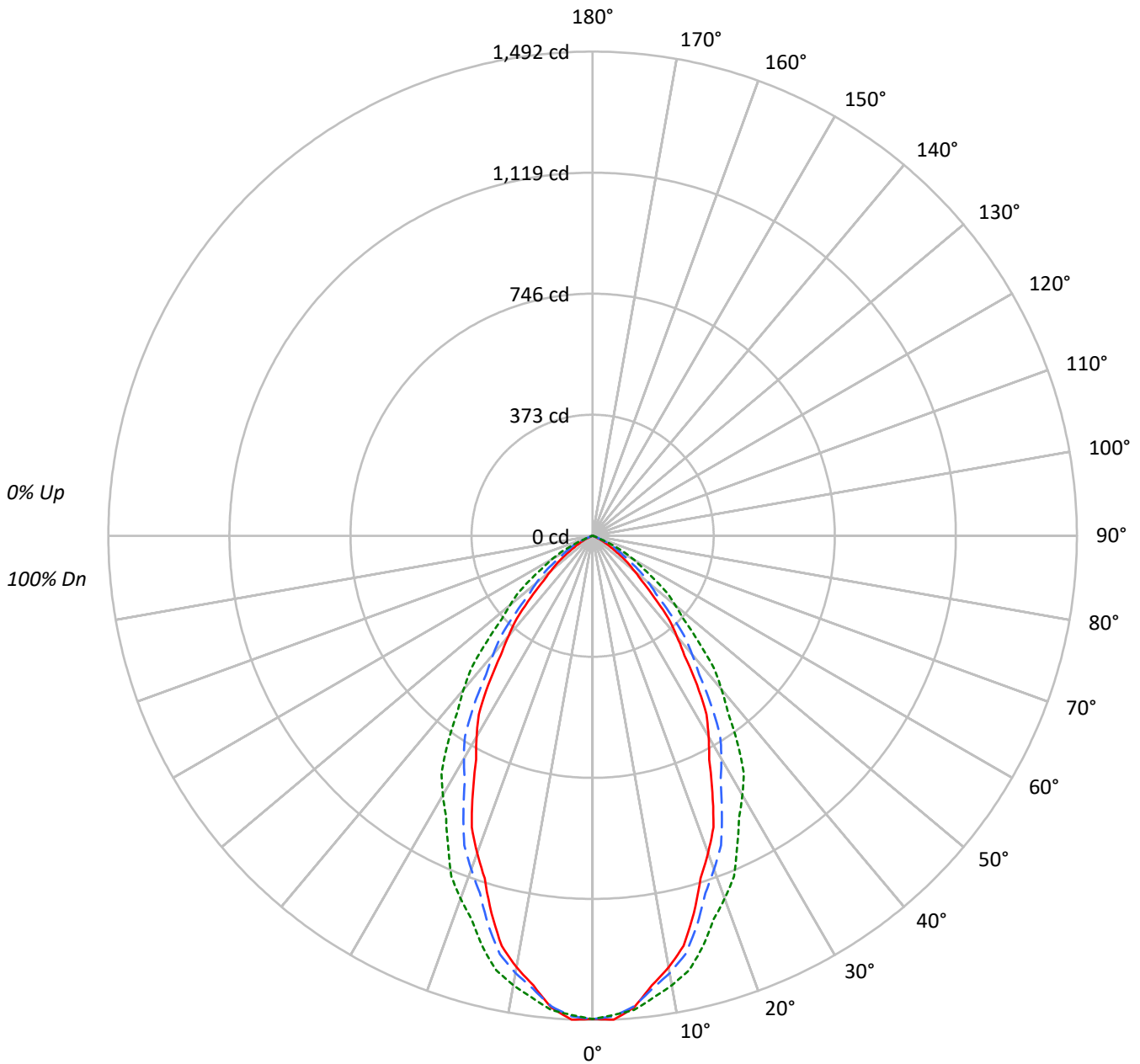
Lumens per Lamp: N/A  
Luminaire Lumens: 1776.3 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91								
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82								
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74								
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67								
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61								
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56								
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51								
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47								
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44								
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13739	13739	13739
5°	13517	13484	13585
10°	12647	12816	13174
15°	11498	11863	12523
20°	10207	10737	11677
25°	8887	9592	10730
30°	7614	8450	9831
35°	6312	7173	8746
40°	4849	5735	7452
45°	3507	4344	5997
50°	2388	3235	4757
55°	1552	2340	3696
60°	891	1648	2674
65°	236	1006	1354
70°	119	310	386
75°	53	25	0
80°	37	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	7.7
10°-20°	347.5	19.6
20°-30°	435.1	24.5
30°-40°	401.8	22.6
40°-50°	270.0	15.2
50°-60°	139.5	7.9
60°-70°	43.7	2.5
70°-80°	2.8	0.2
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	918.5	51.7
0°-40°	1320.3	74.3
0°-60°	1729.8	97.4
0°-90°	1776.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1460	1445	1456	1461	1467	135
15°	1204	1200	1242	1284	1311	335
25°	873	880	942	1007	1054	400
35°	560	575	637	712	776	347
45°	269	285	333	398	460	211
55°	96	113	146	187	230	90
65°	11	21	46	56	62	18
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1492.5	1478.5	1482.1	1482.1	1478.1
5°	1459.5	1444.7	1455.9	1461.1	1466.8
7.5°	1397.9	1386.3	1407.9	1423.8	1435.6
10°	1349.9	1340.1	1368.0	1389.9	1406.2
12.5°	1294.7	1287.0	1320.7	1351.0	1371.6
15°	1203.8	1199.6	1242.0	1283.5	1311.1
17.5°	1106.5	1106.3	1154.5	1206.4	1239.5
20°	1039.6	1041.7	1093.6	1150.7	1189.3
22.5°	972.7	977.6	1033.0	1092.6	1136.9
25°	873.0	880.1	942.2	1006.8	1054.0
27.5°	777.5	787.8	853.2	920.0	977.6
30°	714.7	726.6	793.2	863.6	922.8
32.5°	652.9	667.2	731.9	806.6	866.8
35°	560.4	574.6	636.9	711.8	776.5
37.5°	465.0	478.7	539.5	613.4	683.4
40°	402.6	418.2	476.2	547.7	618.7
42.5°	346.2	361.8	416.2	486.5	553.7
45°	268.8	284.9	332.9	397.6	459.6
47.5°	204.6	222.0	264.1	322.8	379.2
50°	166.4	183.9	225.4	277.1	331.4
52.5°	135.9	153.0	190.3	239.0	288.7
55°	96.5	112.7	145.5	186.9	229.8
57.5°	66.7	80.7	110.1	144.5	178.3
60°	48.3	61.6	89.3	117.3	144.9
62.5°	32.2	44.4	71.4	92.9	111.4
65°	10.8	20.7	46.1	55.6	62.0
67.5°	5.5	6.5	24.1	25.6	27.7
70°	4.4	4.4	11.5	12.2	14.3
72.5°	3.1	3.1	4.6	5.9	6.4
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.7	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







(END OF REPORT)