

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: P845316

Luminaire Tested: **SQ4P-WB-025U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845316  
REPORT IS A COMBINATION OF REPORTS P700184 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-025U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

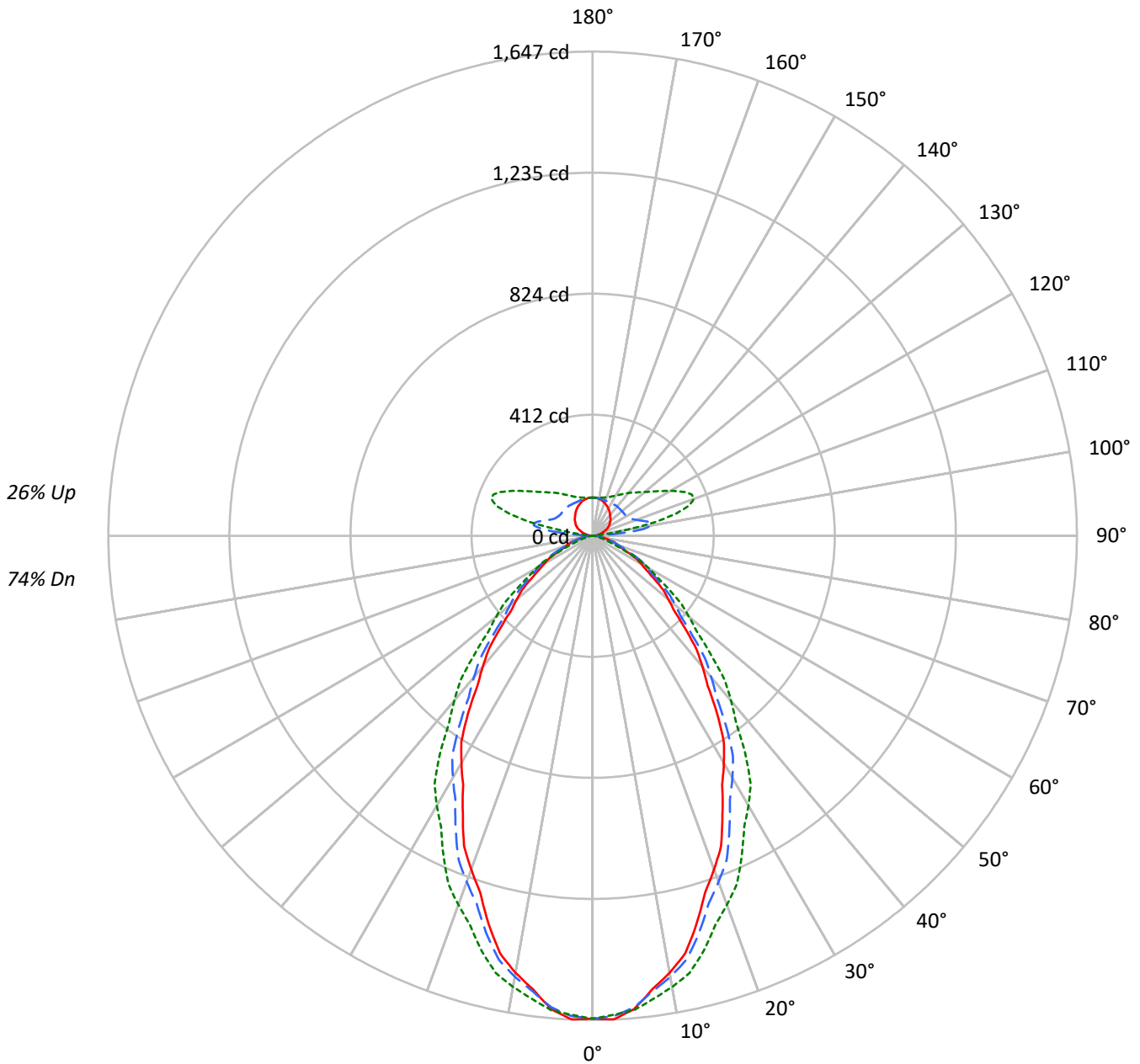
Lumens per Lamp: N/A  
Luminaire Lumens: 3236.7 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 32.6  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74								
1	105	101	98	94	100	96	93	91	87	85	83	79	78	76	72	70	69	66								
2	97	90	85	80	92	86	81	77	79	75	72	72	69	66	65	63	61	58								
3	90	81	74	69	85	78	72	67	71	66	62	65	61	58	59	57	54	51								
4	83	73	66	60	79	70	64	59	65	59	55	59	55	52	54	51	48	46								
5	77	66	59	53	73	64	57	52	59	53	49	54	50	46	50	46	43	41								
6	72	60	53	47	68	58	51	46	54	48	44	50	45	42	46	42	39	37								
7	67	55	48	43	64	53	47	42	50	44	40	46	41	38	43	39	36	34								
8	63	51	44	39	60	49	42	38	46	40	36	43	38	34	40	36	33	31								
9	59	47	40	35	56	46	39	34	43	37	33	40	35	31	37	33	30	28								
10	55	44	37	32	53	42	36	32	40	34	30	37	32	29	35	31	28	26								

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

	0°	45°	90°
0°	15155	15155	15155
5°	14966	14912	15000
10°	14140	14268	14599
15°	13052	13357	13955
20°	11854	12298	13112
25°	10633	11211	12217
30°	9506	10128	11287
35°	8312	8913	10189
40°	6996	7553	8820
45°	5774	6272	7364
50°	4820	5255	6135
55°	4092	4509	5065
60°	3499	3910	4043
65°	2786	3288	2611
70°	2471	2568	1594
75°	2289	2082	977
80°	2104	1913	839
85°	1895	1768	688



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	4.7
10°-20°	391.9	12.1
20°-30°	507.6	15.7
30°-40°	497.1	15.4
40°-50°	380.5	11.8
50°-60°	253.5	7.8
60°-70°	138.4	4.3
70°-80°	57.7	1.8
80°-90°	16.6	0.5
90°-100°	51.7	1.6
100°-110°	179.8	5.6
110°-120°	174.2	5.4
120°-130°	136.6	4.2
130°-140°	108.2	3.3
140°-150°	83.5	2.6
150°-160°	59.8	1.8
160°-170°	36.6	1.1
170°-180°	12.4	0.4
0°-30°	1050.2	32.4
0°-40°	1547.2	47.8
0°-60°	2181.3	67.4
0°-90°	2393.9	74.0
90°-120°	405.7	12.5
90°-150°	734.0	22.7
90°-180°	843.0	26.0
0°-180°	3236.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1616	1600	1610	1614	1620	150
15°	1366	1362	1398	1436	1461	382
25°	1044	1047	1101	1149	1200	480
35°	738	742	791	845	905	459
45°	442	451	481	517	564	345
55°	254	265	280	291	315	231
65°	128	138	151	132	120	133
75°	64	64	58	40	27	68
85°	18	18	17	11	6	20
90°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1642.6	1642.6	1642.6	1642.6	1642.6
2.5°	1646.6	1632.0	1635.8	1635.6	1631.0
5°	1616.0	1599.6	1610.1	1613.9	1619.6
7.5°	1555.9	1543.7	1562.8	1576.9	1588.3
10°	1509.3	1498.7	1523.0	1543.5	1558.3
12.5°	1455.1	1446.1	1476.4	1503.7	1523.2
15°	1366.5	1361.6	1398.4	1436.3	1461.0
17.5°	1271.9	1269.5	1311.5	1355.9	1387.4
20°	1207.3	1206.6	1252.6	1298.9	1335.5
22.5°	1142.1	1143.6	1192.0	1240.2	1282.0
25°	1044.5	1047.2	1101.3	1149.3	1200.1
27.5°	954.0	955.3	1011.1	1061.9	1116.1
30°	892.3	895.8	950.7	1003.2	1059.5
32.5°	830.7	834.8	888.4	942.6	1000.1
35°	738.0	741.6	791.3	844.7	904.6
37.5°	642.6	647.4	691.6	741.9	801.0
40°	580.9	588.0	627.1	674.6	732.3
42.5°	521.5	530.3	566.5	611.6	663.6
45°	442.5	451.0	480.7	517.1	564.4
47.5°	374.4	384.2	407.1	438.4	478.7
50°	335.8	345.1	366.1	389.3	427.4
52.5°	301.9	311.0	329.8	347.7	380.2
55°	254.4	264.9	280.3	291.1	314.9
57.5°	215.5	225.7	237.9	242.7	257.2
60°	189.6	200.9	211.9	211.3	219.1
62.5°	165.9	175.6	186.5	178.8	179.3
65°	127.6	138.2	150.6	131.7	119.6
67.5°	103.1	105.2	118.1	91.9	77.5
70°	91.6	91.6	95.2	71.1	59.1
72.5°	80.6	80.6	77.3	57.8	45.2
75°	64.2	64.2	58.4	40.1	27.4
77.5°	49.4	48.9	44.7	29.8	19.9
80°	39.6	39.6	36.0	23.6	15.8
82.5°	31.0	31.0	27.9	18.4	11.7
85°	17.9	17.9	16.7	10.8	6.5
87.5°	6.4	6.4	5.7	3.4	2.9
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)