

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: P845366

Luminaire Tested: **SQ4P-WB-100U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845366  
REPORT IS A COMBINATION OF REPORTS P700101 AND P700246  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-100U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT  
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

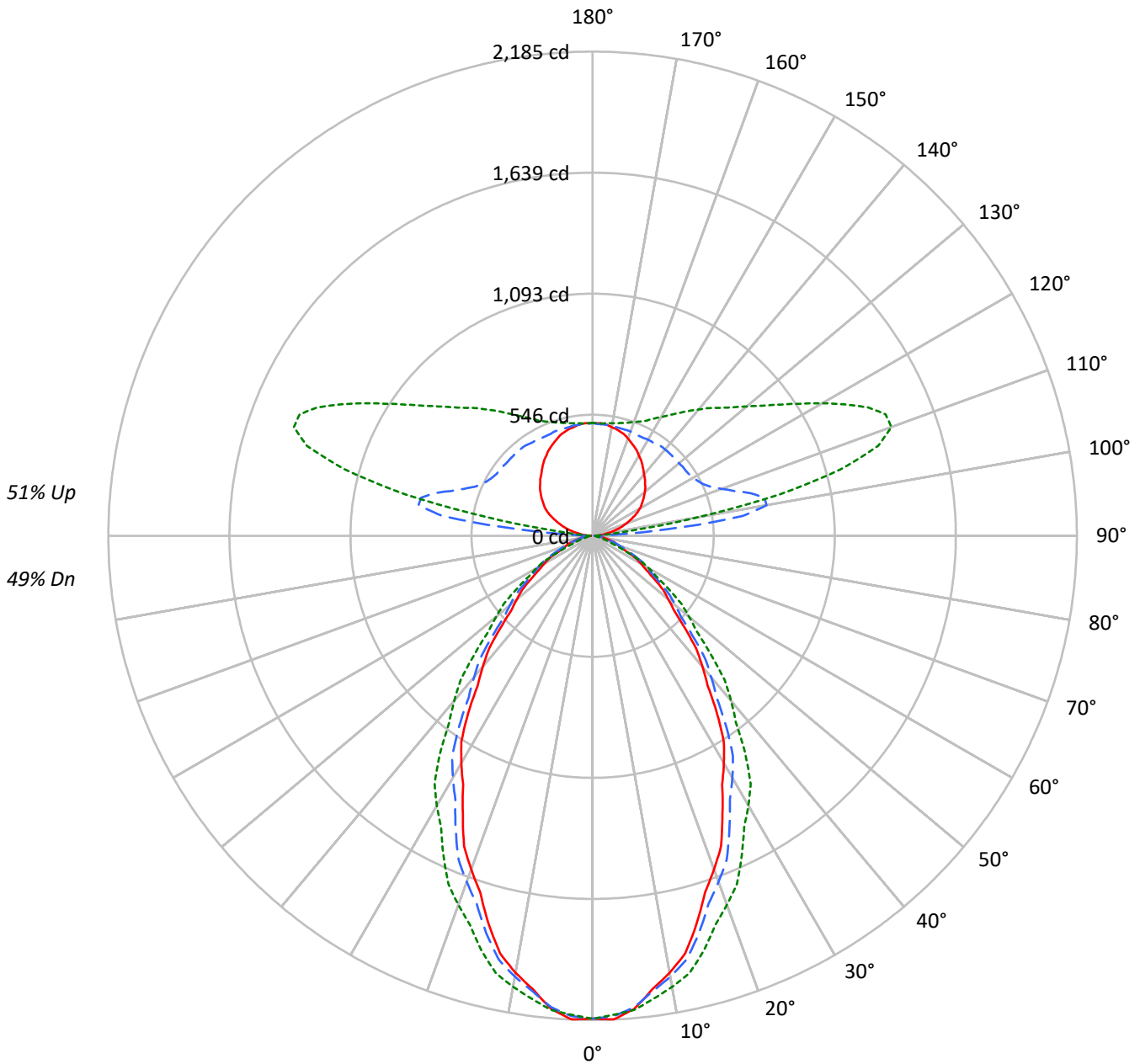
Lumens per Lamp: N/A  
Luminaire Lumens: 6477.4 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.9  
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

TEST NUMBER: P845366

CATALOG NUMBER: SQ4P-WB-100U-100D-B35-1D-UNV

### Luminous Intensity Polar Plot





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**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	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49																											
1	99	95	91	88	91	88	85	82	74	72	70	62	60	59	51	50	49	44																											
2	91	84	79	74	84	78	73	69	66	63	60	56	53	51	46	44	43	38																											
3	84	75	68	63	77	70	64	59	60	55	52	50	47	45	42	40	38	34																											
4	77	67	60	54	71	63	56	51	54	49	45	46	42	39	38	36	34	30																											
5	71	61	53	48	66	56	50	45	49	44	40	42	38	35	35	32	30	27																											
6	66	55	47	42	61	51	45	40	44	39	36	38	34	31	32	29	27	24																											
7	61	50	43	37	57	47	40	35	41	36	32	35	31	28	30	27	25	22																											
8	57	46	38	33	53	43	36	32	38	32	29	32	29	26	28	25	23	20																											
9	54	42	35	30	50	39	33	29	35	30	26	30	26	23	26	23	21	19																											
10	50	39	32	27	47	37	30	26	32	27	24	28	24	21	24	21	19	17																											

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

	0°	45°	90°
0°	20106	20106	20106
5°	19855	19783	19899
10°	18758	18928	19367
15°	17316	17719	18513
20°	15725	16316	17396
25°	14105	14874	16208
30°	12613	13435	14973
35°	11028	11824	13517
40°	9281	10019	11701
45°	7659	8321	9769
50°	6393	6973	8137
55°	5429	5982	6719
60°	4641	5187	5364
65°	3696	4362	3462
70°	3275	3404	2115
75°	3030	2763	1298
80°	2795	2545	1116
85°	2519	2339	910



TEST NUMBER: P845366

CATALOG NUMBER: SQ4P-WB-100U-100D-B35-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	3.1
10°-20°	519.9	8.0
20°-30°	673.4	10.4
30°-40°	659.4	10.2
40°-50°	504.8	7.8
50°-60°	336.3	5.2
60°-70°	183.5	2.8
70°-80°	76.5	1.2
80°-90°	22.9	0.4
90°-100°	202.4	3.1
100°-110°	704.3	10.9
110°-120°	682.2	10.5
120°-130°	535.2	8.3
130°-140°	423.6	6.5
140°-150°	326.9	5.0
150°-160°	234.3	3.6
160°-170°	143.3	2.2
170°-180°	48.5	0.7
0°-30°	1393.2	21.5
0°-40°	2052.6	31.7
0°-60°	2893.7	44.7
0°-90°	3176.7	49.0
90°-120°	1588.9	24.5
90°-150°	2874.6	44.4
90°-180°	3301.0	51.0
0°-180°	6477.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2144	2122	2136	2141	2149	199
15°	1813	1806	1855	1906	1938	506
25°	1386	1389	1461	1525	1592	637
35°	979	984	1050	1121	1200	609
45°	587	598	638	686	749	458
55°	338	352	372	386	418	306
65°	169	183	200	175	159	176
75°	85	85	78	53	36	91
85°	24	24	22	14	9	26
90°	8	11	11	8	4	6
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



TEST NUMBER: P845366

CATALOG NUMBER: SQ4P-WB-100U-100D-B35-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2184.6	2165.1	2170.1	2169.9	2163.8
5°	2143.8	2122.2	2136.1	2141.0	2148.6
7.5°	2064.2	2047.9	2073.3	2091.9	2107.0
10°	2002.2	1988.3	2020.4	2047.7	2067.2
12.5°	1930.4	1918.5	1958.6	1994.9	2020.7
15°	1812.9	1806.4	1855.1	1905.6	1938.2
17.5°	1687.3	1684.1	1739.9	1798.8	1840.6
20°	1601.6	1600.7	1661.8	1723.3	1771.8
22.5°	1515.2	1517.2	1581.5	1645.4	1700.7
25°	1385.6	1389.3	1461.1	1524.8	1592.1
27.5°	1265.7	1267.4	1341.4	1408.7	1480.6
30°	1183.9	1188.4	1261.1	1330.8	1405.5
32.5°	1102.1	1107.4	1178.7	1250.5	1326.7
35°	979.1	983.9	1049.8	1120.7	1200.1
37.5°	852.4	858.9	917.6	984.2	1062.6
40°	770.6	780.1	831.9	894.9	971.5
42.5°	691.8	703.5	751.5	811.3	880.3
45°	587.0	598.3	637.7	686.0	748.7
47.5°	496.8	509.7	540.1	581.7	635.1
50°	445.4	457.8	485.8	516.5	566.9
52.5°	400.4	412.6	437.5	461.3	504.4
55°	337.5	351.5	371.9	386.1	417.7
57.5°	285.9	299.3	315.6	321.9	341.1
60°	251.5	266.5	281.1	280.4	290.7
62.5°	220.2	232.9	247.4	237.2	237.9
65°	169.3	183.4	199.8	174.7	158.6
67.5°	136.8	139.6	156.8	121.8	102.8
70°	121.4	121.4	126.2	94.3	78.4
72.5°	107.0	107.0	102.7	76.6	60.0
75°	85.0	85.0	77.5	53.2	36.4
77.5°	65.6	65.0	59.3	39.6	26.4
80°	52.6	52.6	47.9	31.4	21.0
82.5°	41.1	41.1	37.0	24.5	15.6
85°	23.8	23.8	22.1	14.3	8.6
87.5°	8.4	8.4	7.5	4.5	3.9
90°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



TEST NUMBER: P845366

CATALOG NUMBER: SQ4P-WB-100U-100D-B35-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)