

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: P845342

Luminaire Tested: **SQ4P-WB-075U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845342  
REPORT IS A COMBINATION OF REPORTS P700241 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-075U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

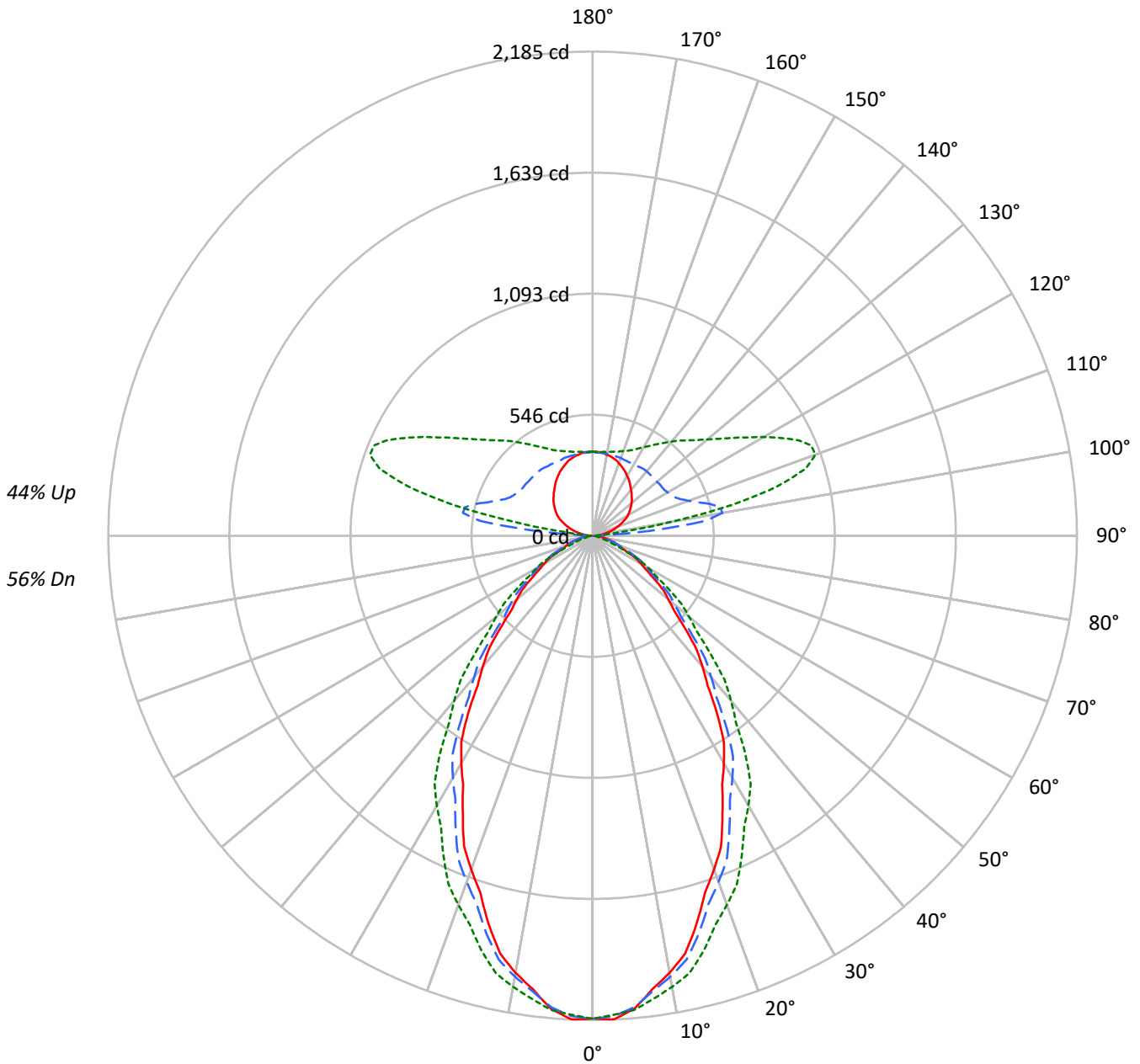
Lumens per Lamp: N/A  
Luminaire Lumens: 5636.8 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.9  
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

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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56																			
1	100	97	93	90	93	90	87	85	78	76	74	67	65	64	57	56	55	50																			
2	93	86	80	76	86	80	76	72	70	66	63	60	58	56	52	50	48	44																			
3	85	77	70	65	79	72	66	61	63	59	55	55	51	49	47	45	43	39																			
4	79	69	62	56	73	65	58	53	57	52	48	50	46	43	43	40	38	35																			
5	73	62	55	49	68	59	52	47	52	47	43	45	41	38	39	36	34	31																			
6	68	56	49	44	63	53	47	42	47	42	38	42	37	34	36	33	31	28																			
7	63	52	44	39	59	49	42	37	43	38	34	38	34	31	34	30	28	26																			
8	59	47	40	35	55	45	38	34	40	35	31	35	31	28	31	28	26	23																			
9	55	44	36	32	52	41	35	30	37	32	28	33	29	26	29	26	23	21																			
10	52	40	33	29	48	38	32	28	34	29	26	31	27	24	27	24	22	20																			

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	3.5
10°-20°	519.9	9.2
20°-30°	673.4	11.9
30°-40°	659.4	11.7
40°-50°	504.8	9.0
50°-60°	336.3	6.0
60°-70°	183.5	3.3
70°-80°	76.5	1.4
80°-90°	22.6	0.4
90°-100°	150.9	2.7
100°-110°	525.0	9.3
110°-120°	508.6	9.0
120°-130°	398.9	7.1
130°-140°	315.7	5.6
140°-150°	243.7	4.3
150°-160°	174.7	3.1
160°-170°	106.8	1.9
170°-180°	36.1	0.6
0°-30°	1393.2	24.7
0°-40°	2052.6	36.4
0°-60°	2893.7	51.3
0°-90°	3176.3	56.4
90°-120°	1184.4	21.0
90°-150°	2142.8	38.0
90°-180°	2460.0	43.6
0°-180°	5636.8	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°	6	8	8	6	3	5
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



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**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°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)