

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: P845156

Luminaire Tested: **SQ4P-PR1-050U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845156  
REPORT IS A COMBINATION OF REPORTS P700203 AND P700244  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PR1-050U-050D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT  
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

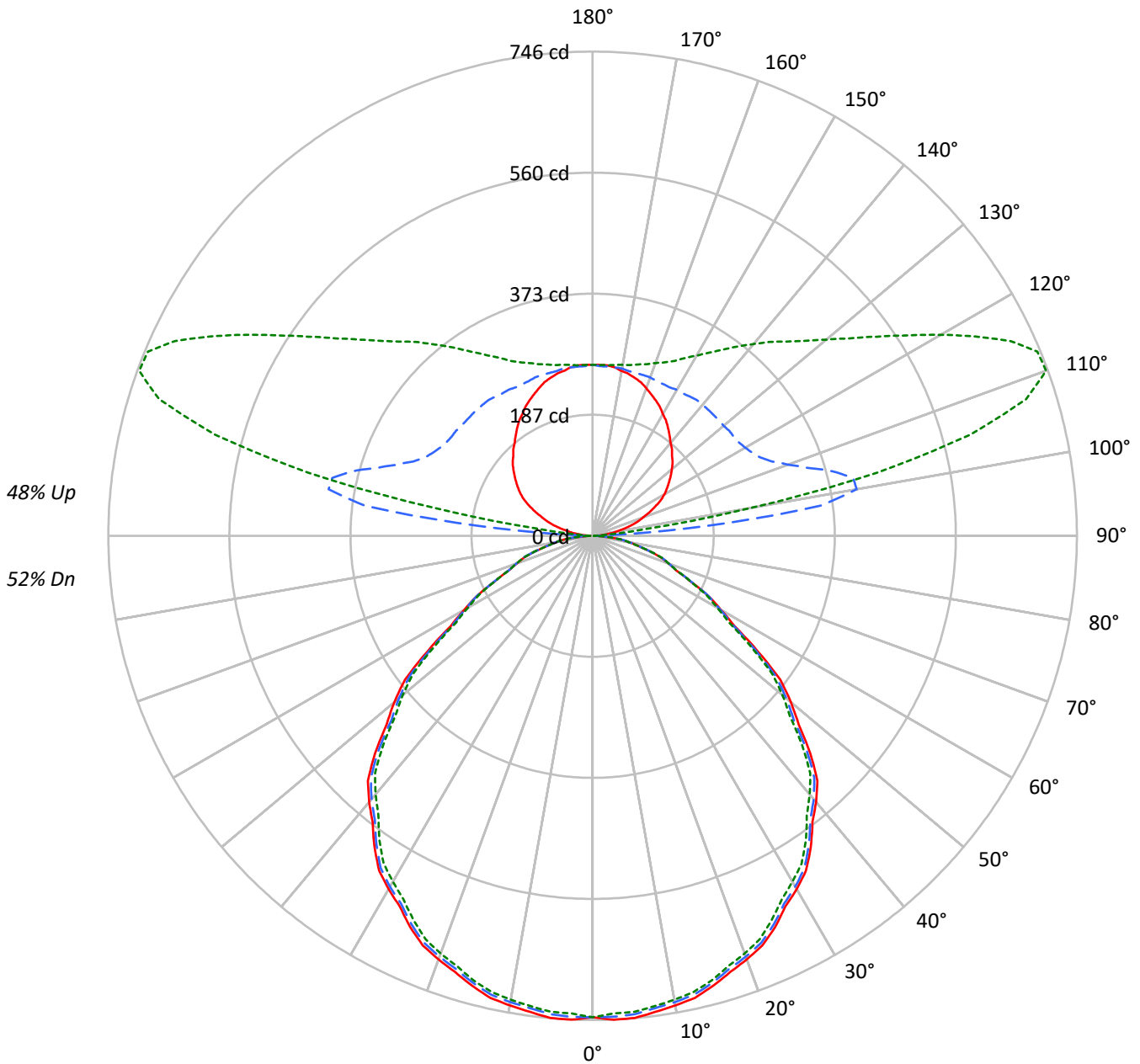
Lumens per Lamp: N/A  
Luminaire Lumens: 3565.2 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 29.8  
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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52																			
1	99	94	91	87	91	87	84	81	74	72	70	63	61	59	52	51	50	44																			
2	90	83	77	72	83	77	72	67	66	62	58	55	53	50	46	44	42	38																			
3	82	73	66	60	76	68	62	56	58	53	49	49	46	43	41	38	36	32																			
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	31	28																			
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	28	24																			
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21																			
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19																			
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	19	17																			
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	23	20	18	15																			
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	22	18	16	14																			

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

	0°	45°	90°
0°	6844	6844	6844
5°	6906	6853	6817
10°	6883	6835	6800
15°	6854	6810	6774
20°	6819	6775	6725
25°	6771	6726	6648
30°	6697	6650	6555
35°	6600	6542	6448
40°	6448	6378	6264
45°	6186	6078	5952
50°	5723	5585	5474
55°	4995	4884	4781
60°	4209	4174	4091
65°	3639	3655	3626
70°	3342	3361	3361
75°	3212	3212	3233
80°	3023	3055	3023
85°	2435	2699	2699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	2.0
10°-20°	200.7	5.6
20°-30°	302.7	8.5
30°-40°	360.7	10.1
40°-50°	355.6	10.0
50°-60°	271.8	7.6
60°-70°	168.2	4.7
70°-80°	95.5	2.7
80°-90°	29.7	0.8
90°-100°	104.9	2.9
100°-110°	364.9	10.2
110°-120°	353.5	9.9
120°-130°	277.3	7.8
130°-140°	219.5	6.2
140°-150°	169.4	4.8
150°-160°	121.4	3.4
160°-170°	74.3	2.1
170°-180°	25.1	0.7
0°-30°	573.6	16.1
0°-40°	934.3	26.2
0°-60°	1561.6	43.8
0°-90°	1855.0	52.0
90°-120°	823.3	23.1
90°-150°	1489.4	41.8
90°-180°	1710.0	48.0
0°-180°	3565.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	746	737	740	737	736	71
15°	718	710	713	710	709	202
25°	665	657	661	654	653	306
35°	586	579	581	573	572	366
45°	474	468	466	457	456	363
55°	310	306	304	298	297	278
65°	167	166	167	166	166	169
75°	90	90	90	91	91	95
85°	23	24	26	26	26	27
90°	4	6	6	4	2	3
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	741.8	741.8	741.8	741.8	741.8
2.5°	746.4	739.9	741.8	740.2	736.7
5°	745.7	737.4	739.9	737.3	736.1
7.5°	739.9	731.9	734.3	731.7	731.0
10°	734.7	727.3	729.6	727.1	725.8
12.5°	729.1	721.2	724.0	720.9	719.7
15°	717.6	710.0	713.0	710.4	709.2
17.5°	704.8	696.7	699.8	696.8	695.2
20°	694.5	687.1	690.0	685.6	684.9
22.5°	683.2	675.8	678.7	672.9	672.7
25°	665.1	656.9	660.7	653.7	653.0
27.5°	643.5	636.1	639.0	631.9	631.2
30°	628.6	621.2	624.2	616.5	615.3
32.5°	611.8	604.9	607.4	599.7	598.9
35°	586.0	579.0	580.8	573.1	572.5
37.5°	556.4	550.1	551.1	542.6	542.1
40°	535.4	529.2	529.6	520.7	520.1
42.5°	512.5	506.2	505.6	496.7	496.0
45°	474.1	467.9	465.8	457.4	456.2
47.5°	430.4	424.1	420.3	413.4	412.6
50°	398.7	392.4	389.1	383.3	381.4
52.5°	364.4	358.2	355.4	350.1	348.3
55°	310.5	305.5	303.6	298.4	297.2
57.5°	259.2	256.0	255.3	250.3	249.8
60°	228.1	226.2	226.2	221.7	221.7
62.5°	201.6	200.1	201.1	198.2	197.7
65°	166.7	165.6	167.4	166.1	166.1
67.5°	139.3	139.3	140.4	139.8	139.8
70°	123.9	123.9	124.6	124.6	124.6
72.5°	110.1	109.7	111.4	111.3	110.8
75°	90.1	90.1	90.1	90.7	90.7
77.5°	70.2	70.3	70.8	70.8	70.2
80°	56.9	57.5	57.5	56.9	56.9
82.5°	43.6	44.1	44.1	44.0	43.6
85°	23.0	24.3	25.5	25.5	25.5
87.5°	6.7	8.6	10.3	10.3	9.7
90°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)