

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: P844879

Luminaire Tested: **SQ4P-BB-125U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844879  
REPORT IS A COMBINATION OF REPORTS P700106 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-BB-125U-125D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

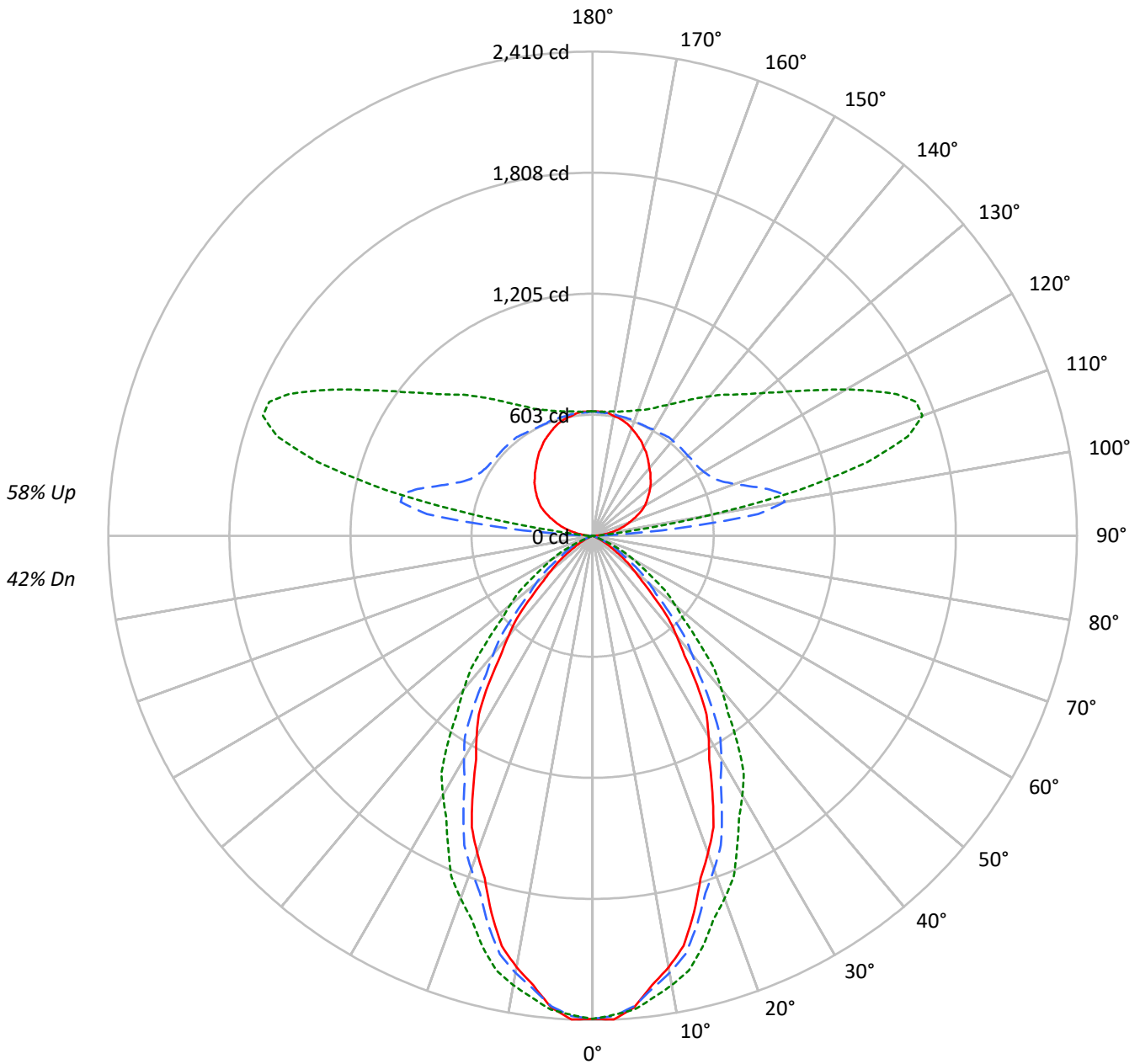
Lumens per Lamp: N/A  
Luminaire Lumens: 6888.2 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.8  
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

TEST NUMBER: P844879

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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42																			
1	97	94	90	87	89	86	83	81	71	69	68	58	56	55	45	44	44	38																			
2	90	84	78	74	82	77	72	69	64	61	58	52	50	49	42	40	39	34																			
3	83	75	69	63	76	69	64	59	58	54	51	48	45	43	38	37	35	31																			
4	77	67	60	55	70	62	56	52	53	48	45	44	41	38	35	33	32	28																			
5	71	61	54	48	65	56	50	45	48	43	40	40	37	34	33	30	29	25																			
6	66	55	48	43	60	51	45	40	44	39	35	37	33	31	30	28	26	23																			
7	61	50	43	38	56	47	41	36	40	35	32	34	30	28	28	26	24	21																			
8	57	46	39	34	53	43	37	32	37	32	29	31	28	25	26	24	22	20																			
9	54	42	36	31	49	40	34	29	34	30	26	29	26	23	24	22	20	18																			
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	21	19	17																			

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

	0°	45°	90°
0°	22185	22185	22185
5°	21828	21775	21936
10°	20422	20697	21275
15°	18567	19157	20224
20°	16483	17338	18856
25°	14353	15489	17325
30°	12295	13645	15876
35°	10193	11584	14123
40°	7831	9262	12034
45°	5663	7013	9684
50°	3857	5225	7682
55°	2508	3780	5969
60°	1439	2663	4316
65°	380	1626	2185
70°	192	504	623
75°	86	36	0
80°	53	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	3.2
10°-20°	561.2	8.1
20°-30°	702.6	10.2
30°-40°	648.9	9.4
40°-50°	436.0	6.3
50°-60°	225.2	3.3
60°-70°	70.5	1.0
70°-80°	4.4	0.1
80°-90°	1.6	0.0
90°-100°	246.4	3.6
100°-110°	857.4	12.4
110°-120°	830.6	12.1
120°-130°	651.5	9.5
130°-140°	515.7	7.5
140°-150°	398.0	5.8
150°-160°	285.3	4.1
160°-170°	174.5	2.5
170°-180°	59.0	0.9
0°-30°	1483.2	21.5
0°-40°	2132.1	31.0
0°-60°	2793.4	40.6
0°-90°	2869.9	41.7
90°-120°	1934.4	28.1
90°-150°	3499.5	50.8
90°-180°	4018.0	58.3
0°-180°	6888.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2405	2405	2405	2405	2405	
5°	2357	2333	2351	2359	2368	219
15°	1944	1937	2006	2073	2117	541
25°	1410	1421	1522	1626	1702	646
35°	905	928	1028	1149	1254	561
45°	434	460	538	642	742	341
55°	156	182	235	302	371	145
65°	17	33	74	90	100	29
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	9	14	14	9	5	6
95°	42	143	416	106	65	44
105°	143	203	901	1520	1414	151
115°	250	300	670	1414	1668	246
125°	337	416	624	1054	1257	302
135°	407	457	619	878	993	315
145°	476	508	614	758	822	298
155°	541	559	605	675	698	249
165°	592	596	610	638	642	167
175°	619	619	614	624	619	59
180°	619	619	619	619	619	



TEST NUMBER: P844879

CATALOG NUMBER: SQ4P-BB-125U-125D-B50-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2404.6	2404.6	2404.6	2404.6	2404.6
2.5°	2410.1	2387.5	2393.3	2393.3	2387.0
5°	2356.9	2333.0	2351.1	2359.3	2368.5
7.5°	2257.4	2238.7	2273.4	2299.2	2318.3
10°	2179.9	2164.1	2209.2	2244.5	2270.9
12.5°	2090.6	2078.3	2132.8	2181.6	2215.0
15°	1943.9	1937.2	2005.6	2072.7	2117.3
17.5°	1786.8	1786.5	1864.4	1948.2	2001.6
20°	1678.8	1682.2	1765.9	1858.2	1920.5
22.5°	1570.7	1578.6	1668.2	1764.4	1836.0
25°	1409.9	1421.2	1521.5	1625.9	1701.9
27.5°	1255.5	1272.1	1377.8	1485.7	1578.6
30°	1154.1	1173.4	1280.8	1394.6	1490.2
32.5°	1054.3	1077.5	1182.0	1302.7	1399.9
35°	905.0	927.8	1028.5	1149.4	1253.9
37.5°	750.9	773.0	871.3	990.6	1103.6
40°	650.2	675.3	769.0	884.4	999.2
42.5°	559.1	584.2	672.1	785.6	894.1
45°	434.0	460.1	537.5	642.1	742.2
47.5°	330.3	358.4	426.4	521.2	612.3
50°	268.7	297.1	364.0	447.5	535.2
52.5°	219.3	247.1	307.3	385.9	466.2
55°	155.9	182.0	235.0	301.8	371.1
57.5°	107.7	130.3	177.7	233.3	287.9
60°	78.0	99.6	144.3	189.4	233.9
62.5°	51.9	71.6	115.4	150.1	179.9
65°	17.4	33.4	74.5	89.8	100.1
67.5°	8.9	10.6	38.9	41.3	44.7
70°	7.1	7.1	18.7	19.7	23.1
72.5°	5.0	5.0	7.3	9.5	10.3
75°	2.4	2.4	1.0	0.0	0.0
77.5°	1.0	1.0	1.0	0.0	0.0
80°	1.0	1.0	0.0	0.0	0.0
82.5°	0.3	0.3	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°	9.2	13.9	13.9	9.2	4.7
92.5°	23.1	69.3	64.6	27.7	23.1
95°	41.6	143.3	415.8	106.2	64.6
97.5°	64.6	161.7	831.7	378.9	203.4
100°	87.8	171.0	970.3	910.2	586.8
102.5°	115.5	184.8	965.7	1279.9	1053.5
105°	143.3	203.4	901.0	1520.2	1413.9



TEST NUMBER: P844879

CATALOG NUMBER: SQ4P-BB-125U-125D-B50-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.8	272.7	702.3	1529.4	1742.0
115°	249.5	300.4	670.0	1413.9	1668.0
117.5°	277.2	332.7	651.5	1307.7	1561.8
120°	300.4	360.4	637.7	1206.0	1455.6
122.5°	318.8	388.1	628.4	1122.8	1349.2
125°	337.3	415.8	623.8	1053.5	1256.9
127.5°	355.8	434.3	623.8	1002.7	1173.7
130°	374.2	443.5	619.2	951.8	1104.3
132.5°	392.8	448.2	619.2	914.9	1044.3
135°	406.6	457.4	619.2	878.0	993.4
137.5°	425.1	466.7	619.2	845.6	951.8
140°	439.0	480.6	619.2	813.2	905.7
142.5°	457.4	494.4	619.2	780.9	864.1
145°	475.9	508.3	614.5	757.8	822.5
147.5°	494.4	522.1	610.0	734.7	785.5
150°	508.3	536.0	610.0	711.5	753.1
152.5°	526.8	549.9	605.3	688.5	725.4
155°	540.7	559.1	605.3	674.6	697.7
157.5°	554.5	572.9	605.3	660.8	679.3
160°	568.4	582.2	610.0	651.5	665.4
162.5°	582.2	591.5	610.0	642.2	651.5
165°	591.5	596.1	610.0	637.7	642.2
167.5°	600.7	605.3	610.0	633.0	633.0
170°	605.3	610.0	614.5	628.4	628.4
172.5°	614.5	614.5	614.5	623.8	623.8
175°	619.2	619.2	614.5	623.8	619.2
177.5°	619.2	619.2	614.5	623.8	619.2
180°	619.2	619.2	619.2	619.2	619.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	171.0	226.4	817.9	1626.4	1645.0
110°	194.0	249.5	753.1	1612.6	1746.6



(END OF REPORT)