

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563232

Luminaire Tested: **SQ4-PP3-025U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563232  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

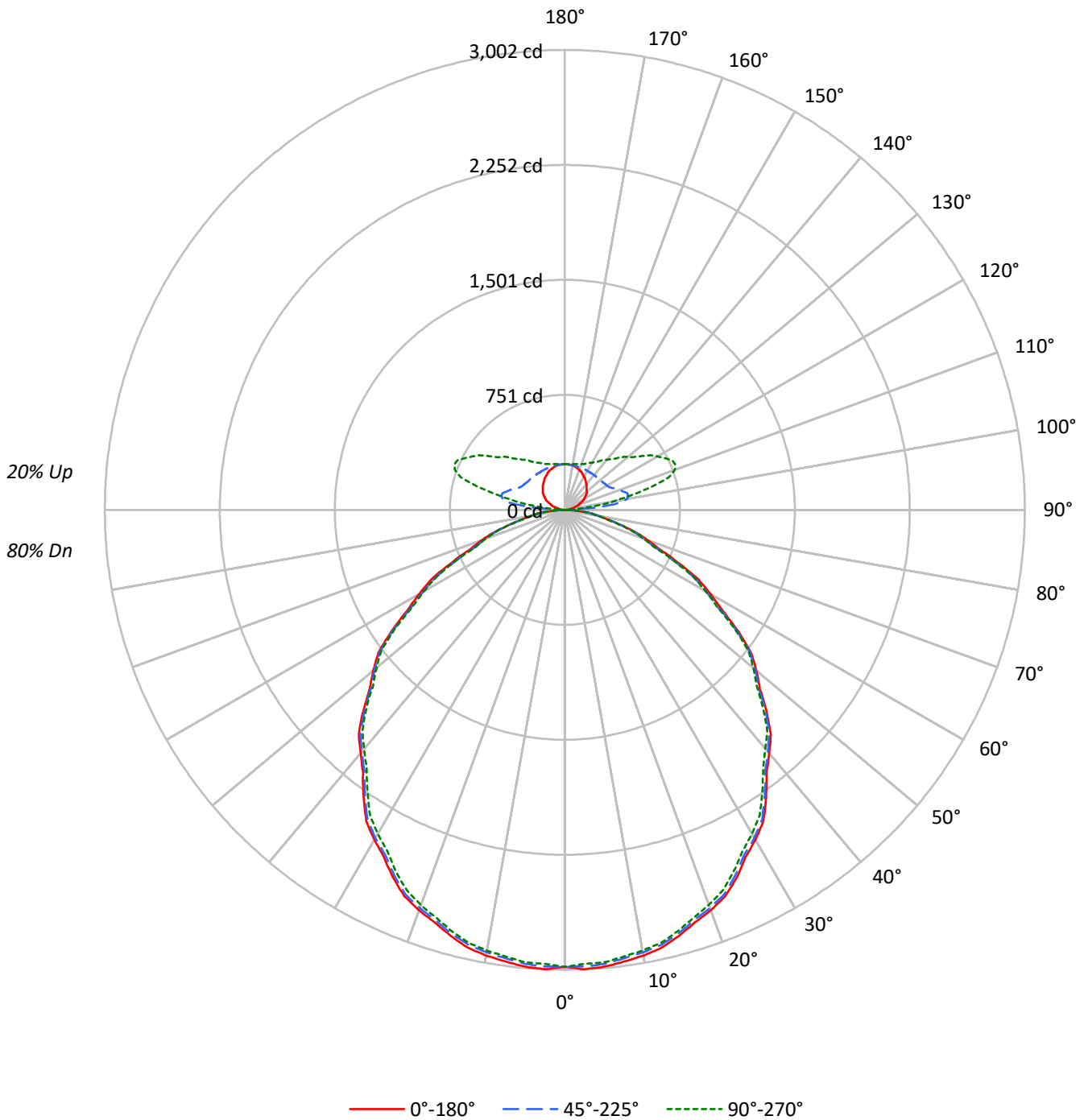
Lumens per Lamp: N/A  
Luminaire Lumens: 9568.4 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 82.2  
Input Voltage (V): 120  
Input Current (Ain): 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: 24 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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13400	13268
30°	13244	13175	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11939
50°	11708	11633	11521
55°	11102	10955	10871
60°	10106	9818	9769
65°	8904	8533	8504
70°	7687	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4568	4981	4981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.1	2.9
10°-20°	805.4	8.4
20°-30°	1206.4	12.6
30°-40°	1415.1	14.8
40°-50°	1419.5	14.8
50°-60°	1210.9	12.7
60°-70°	789.7	8.3
70°-80°	396.2	4.1
80°-90°	111.2	1.2
90°-100°	145.3	1.5
100°-110°	381.9	4.0
110°-120°	396.0	4.1
120°-130°	317.6	3.3
130°-140°	249.2	2.6
140°-150°	191.3	2.0
150°-160°	137.8	1.4
160°-170°	84.3	0.9
170°-180°	28.5	0.3
0°-30°	2293.9	24.0
0°-40°	3709.0	38.8
0°-60°	6339.4	66.3
0°-90°	7636.6	79.8
90°-120°	923.2	9.6
90°-150°	1681.3	17.6
90°-180°	1932.0	20.2
0°-180°	9568.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2983	2983	2983	2983	2983	
5°	2994	2965	2975	2965	2965	284
15°	2878	2850	2863	2852	2847	812
25°	2651	2620	2633	2609	2607	1219
35°	2290	2267	2275	2248	2246	1431
45°	1862	1849	1848	1830	1830	1433
55°	1380	1375	1362	1354	1352	1227
65°	816	800	782	776	779	814
75°	371	371	366	363	361	403
85°	86	94	94	94	94	101
90°	2	6	15	8	8	5
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	3001.9	2977.4	2983.1	2978.6	2966.3
5°	2993.5	2965.4	2975.2	2964.8	2964.8
7.5°	2973.1	2942.5	2952.2	2941.7	2941.2
10°	2954.3	2923.6	2933.4	2922.9	2920.3
12.5°	2927.1	2896.4	2908.3	2895.7	2895.2
15°	2878.5	2850.4	2862.8	2852.2	2847.1
17.5°	2823.6	2792.9	2807.9	2793.2	2791.2
20°	2781.8	2751.1	2766.1	2745.2	2745.2
22.5°	2731.6	2700.9	2718.0	2690.8	2690.8
25°	2651.0	2620.4	2632.7	2609.1	2606.6
27.5°	2555.3	2525.2	2538.1	2511.4	2510.9
30°	2486.3	2458.2	2473.3	2444.4	2441.9
32.5°	2411.0	2385.0	2395.9	2367.0	2364.5
35°	2290.2	2267.2	2274.6	2248.4	2245.8
37.5°	2163.2	2139.7	2148.0	2125.5	2124.5
40°	2073.2	2057.9	2060.2	2041.8	2036.6
42.5°	1989.6	1972.2	1974.4	1956.1	1955.1
45°	1861.5	1848.7	1848.4	1830.1	1830.1
47.5°	1725.5	1715.8	1713.0	1697.8	1697.3
50°	1631.4	1623.7	1620.9	1607.8	1605.3
52.5°	1533.1	1529.5	1520.6	1509.6	1509.1
55°	1380.4	1375.3	1362.1	1354.2	1351.7
57.5°	1214.7	1204.4	1189.6	1178.1	1180.2
60°	1095.4	1085.2	1064.1	1058.8	1058.8
62.5°	980.4	968.1	946.9	939.7	943.8
65°	815.7	800.4	781.7	776.5	779.1
67.5°	666.2	652.4	632.2	632.1	630.1
70°	569.9	562.3	546.4	546.4	546.4
72.5°	484.2	480.6	469.0	469.0	466.9
75°	371.2	371.2	366.0	363.3	360.8
77.5°	278.2	279.2	276.6	273.9	269.3
80°	219.6	224.7	222.2	219.6	217.0
82.5°	165.2	170.3	169.9	165.2	164.7
85°	86.3	93.9	94.1	94.1	94.1
87.5°	23.4	32.3	36.5	35.0	37.1
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)