

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: P563236

Luminaire Tested: **SQ4-PP3-025U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563236  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

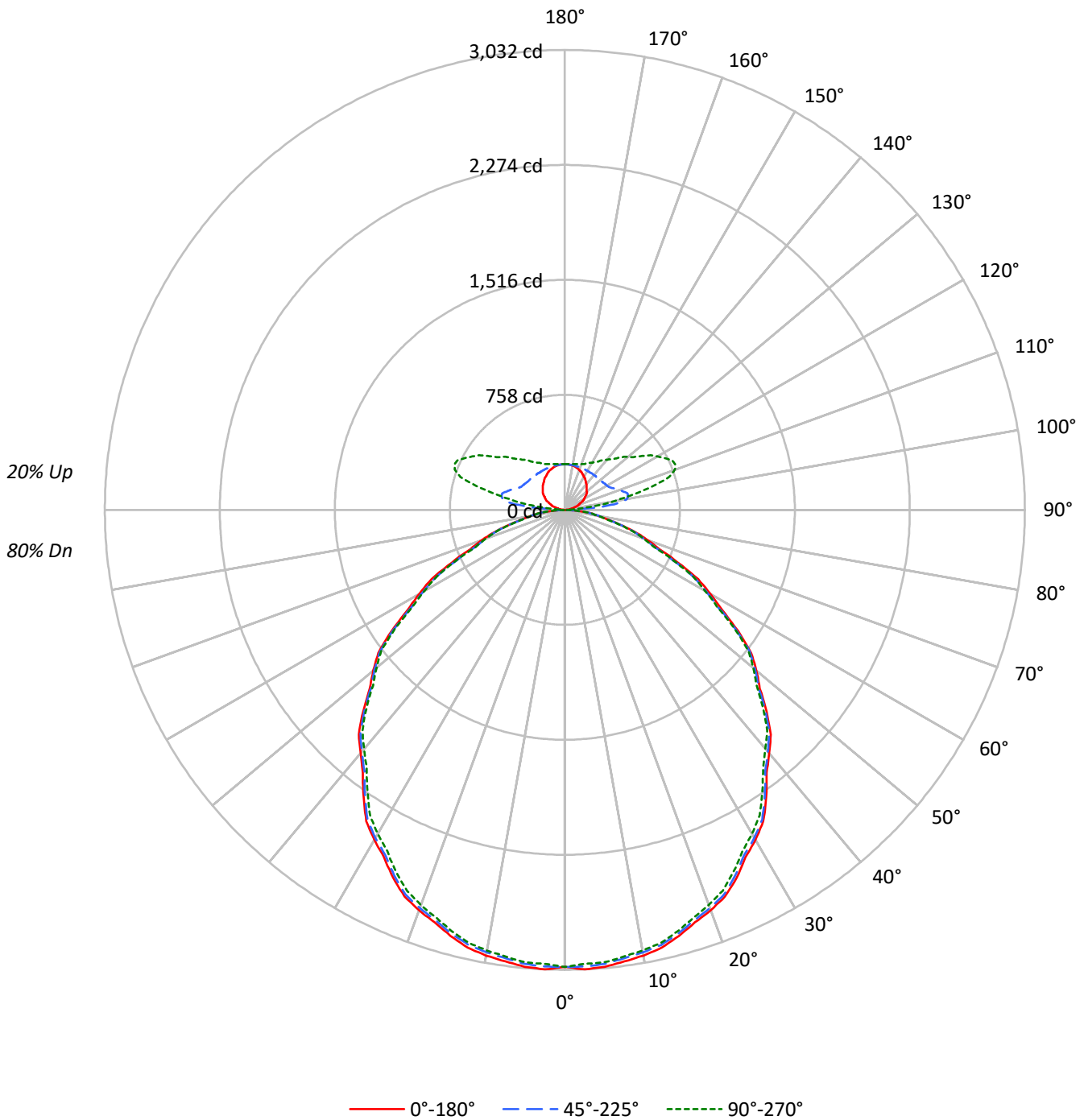
Lumens per Lamp: N/A  
Luminaire Lumens: 9664.7 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13629	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12059
50°	11826	11750	11636
55°	11214	11065	10981
60°	10209	9916	9867
65°	8993	8619	8589
70°	7765	7444	7444
75°	6684	6589	6495
80°	5892	5964	5823
85°	4610	5034	5034



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.9	2.9
10°-20°	813.5	8.4
20°-30°	1218.6	12.6
30°-40°	1429.3	14.8
40°-50°	1433.8	14.8
50°-60°	1223.1	12.7
60°-70°	797.7	8.3
70°-80°	400.2	4.1
80°-90°	112.4	1.2
90°-100°	146.7	1.5
100°-110°	385.7	4.0
110°-120°	400.0	4.1
120°-130°	320.8	3.3
130°-140°	251.7	2.6
140°-150°	193.2	2.0
150°-160°	139.2	1.4
160°-170°	85.1	0.9
170°-180°	28.8	0.3
0°-30°	2317.0	24.0
0°-40°	3746.3	38.8
0°-60°	6403.2	66.3
0°-90°	7713.5	79.8
90°-120°	932.4	9.6
90°-150°	1698.2	17.6
90°-180°	1951.0	20.2
0°-180°	9664.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3013	3013	3013	3013	3013	
5°	3024	2995	3005	2995	2995	287
15°	2908	2879	2892	2881	2876	820
25°	2678	2647	2659	2635	2633	1231
35°	2313	2290	2297	2271	2268	1445
45°	1880	1867	1867	1848	1848	1448
55°	1394	1389	1376	1368	1365	1239
65°	824	808	790	784	787	822
75°	375	375	370	367	364	407
85°	87	95	95	95	95	102
90°	2	6	15	8	8	5
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3013.1	3013.1	3013.1	3013.1	3013.1
2.5°	3032.1	3007.3	3013.1	3008.6	2996.2
5°	3023.6	2995.2	3005.2	2994.6	2994.6
7.5°	3003.1	2972.1	2981.9	2971.3	2970.8
10°	2984.0	2953.1	2962.9	2952.3	2949.7
12.5°	2956.6	2925.6	2937.6	2924.9	2924.4
15°	2907.5	2879.1	2891.6	2880.9	2875.8
17.5°	2852.0	2821.0	2836.2	2821.3	2819.3
20°	2809.7	2778.8	2793.9	2772.8	2772.8
22.5°	2759.0	2728.1	2745.3	2717.9	2717.9
25°	2677.7	2646.7	2659.2	2635.4	2632.8
27.5°	2581.1	2550.6	2563.6	2536.7	2536.2
30°	2511.3	2482.9	2498.1	2469.0	2466.5
32.5°	2435.3	2409.0	2420.0	2390.9	2388.3
35°	2313.3	2290.1	2297.4	2271.0	2268.4
37.5°	2184.9	2161.2	2169.6	2146.9	2145.9
40°	2094.1	2078.6	2080.9	2062.3	2057.1
42.5°	2009.6	1992.0	1994.3	1975.8	1974.7
45°	1880.2	1867.3	1867.0	1848.5	1848.5
47.5°	1742.9	1733.1	1730.2	1714.9	1714.4
50°	1647.8	1640.1	1637.3	1624.0	1621.4
52.5°	1548.5	1544.9	1535.9	1524.8	1524.2
55°	1394.3	1389.1	1375.8	1367.8	1365.3
57.5°	1226.9	1216.6	1201.5	1190.0	1192.0
60°	1106.5	1096.1	1074.8	1069.5	1069.5
62.5°	990.3	977.9	956.5	949.2	953.3
65°	823.9	808.4	789.6	784.4	786.9
67.5°	672.9	658.9	638.5	638.5	636.4
70°	575.7	567.9	551.9	551.9	551.9
72.5°	489.1	485.5	473.7	473.7	471.6
75°	375.0	375.0	369.7	367.0	364.4
77.5°	281.0	282.0	279.4	276.6	272.0
80°	221.8	227.0	224.5	221.8	219.2
82.5°	166.9	172.1	171.6	166.9	166.4
85°	87.1	94.9	95.1	95.1	95.1
87.5°	23.6	32.6	36.9	35.4	37.5
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)