

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: P563589

Luminaire Tested: **SQ4-PP3-100U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563589  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20672.1 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

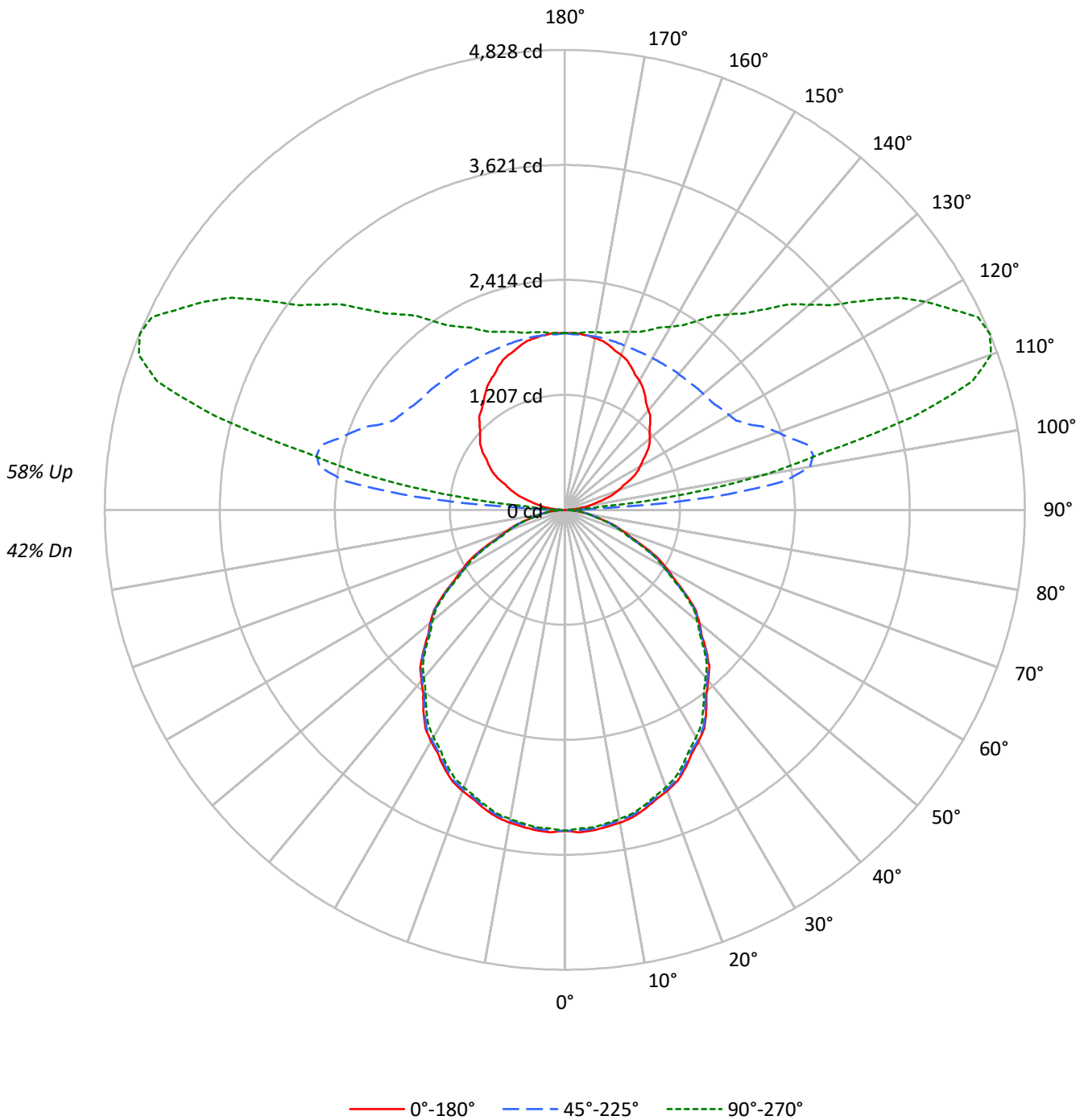
Input Watts (W): 153.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10143
25°	10156	10085	9985
30°	9968	9915	9790
35°	9707	9640	9518
40°	9396	9337	9230
45°	9140	9076	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7607	7389	7353
65°	6701	6422	6400
70°	5785	5547	5547
75°	4980	4910	4840
80°	4390	4444	4339
85°	3437	3751	3751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	1.5
10°-20°	909.3	4.4
20°-30°	1361.9	6.6
30°-40°	1597.5	7.7
40°-50°	1602.5	7.8
50°-60°	1367.1	6.6
60°-70°	891.6	4.3
70°-80°	447.3	2.2
80°-90°	127.6	0.6
90°-100°	868.4	4.2
100°-110°	2397.4	11.6
110°-120°	2472.6	12.0
120°-130°	1986.9	9.6
130°-140°	1561.5	7.6
140°-150°	1197.6	5.8
150°-160°	860.7	4.2
160°-170°	526.4	2.5
170°-180°	177.5	0.9
0°-30°	2589.7	12.5
0°-40°	4187.1	20.3
0°-60°	7156.7	34.6
0°-90°	8623.2	41.7
90°-120°	5738.4	27.8
90°-150°	10484.4	50.7
90°-180°	12049.0	58.3
0°-180°	20672.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3380	3348	3359	3347	3347	321
15°	3250	3218	3232	3220	3214	917
25°	2993	2958	2972	2946	2943	1376
35°	2586	2560	2568	2538	2535	1615
45°	2102	2087	2087	2066	2066	1618
55°	1558	1553	1538	1529	1526	1385
65°	921	904	882	877	880	919
75°	419	419	413	410	407	455
85°	97	106	106	106	106	115
90°	6	12	24	27	30	13
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3388.9	3361.2	3367.6	3362.6	3348.8
5°	3379.5	3347.7	3358.8	3347.0	3347.0
7.5°	3356.4	3321.8	3332.8	3321.0	3320.4
10°	3335.2	3300.5	3311.6	3299.7	3296.8
12.5°	3304.5	3269.9	3283.2	3269.1	3268.5
15°	3249.6	3217.8	3231.9	3219.9	3214.2
17.5°	3187.6	3153.0	3169.9	3153.3	3151.0
20°	3140.4	3105.8	3122.7	3099.1	3099.1
22.5°	3083.7	3049.1	3068.4	3037.7	3037.7
25°	2992.8	2958.2	2972.1	2945.5	2942.6
27.5°	2884.8	2850.7	2865.3	2835.2	2834.6
30°	2806.9	2775.1	2792.1	2759.6	2756.7
32.5°	2721.9	2692.4	2704.7	2672.2	2669.3
35°	2585.5	2559.5	2567.8	2538.2	2535.3
37.5°	2442.1	2415.5	2424.9	2399.5	2398.4
40°	2340.5	2323.2	2325.8	2305.0	2299.2
42.5°	2246.1	2226.5	2229.0	2208.3	2207.1
45°	2101.5	2087.0	2086.7	2066.0	2066.0
47.5°	1948.0	1937.0	1933.8	1916.7	1916.1
50°	1841.7	1833.1	1829.9	1815.1	1812.2
52.5°	1730.8	1726.7	1716.6	1704.2	1703.6
55°	1558.4	1552.6	1537.7	1528.8	1525.9
57.5°	1371.3	1359.7	1342.9	1330.0	1332.3
60°	1236.7	1225.1	1201.3	1195.4	1195.4
62.5°	1106.8	1093.0	1069.0	1060.9	1065.5
65°	920.9	903.5	882.5	876.7	879.5
67.5°	752.0	736.5	713.7	713.6	711.3
70°	643.4	634.8	616.9	616.9	616.9
72.5°	546.6	542.6	529.5	529.4	527.1
75°	419.1	419.1	413.2	410.2	407.3
77.5°	314.0	315.2	312.3	309.2	304.0
80°	247.9	253.7	250.9	247.9	245.0
82.5°	186.5	192.3	191.8	186.5	185.9
85°	97.4	106.1	106.3	106.3	106.3
87.5°	27.2	37.6	42.5	43.2	46.1
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)