

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: P564584

Luminaire Tested: **SQ4-PW1-025U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564584
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

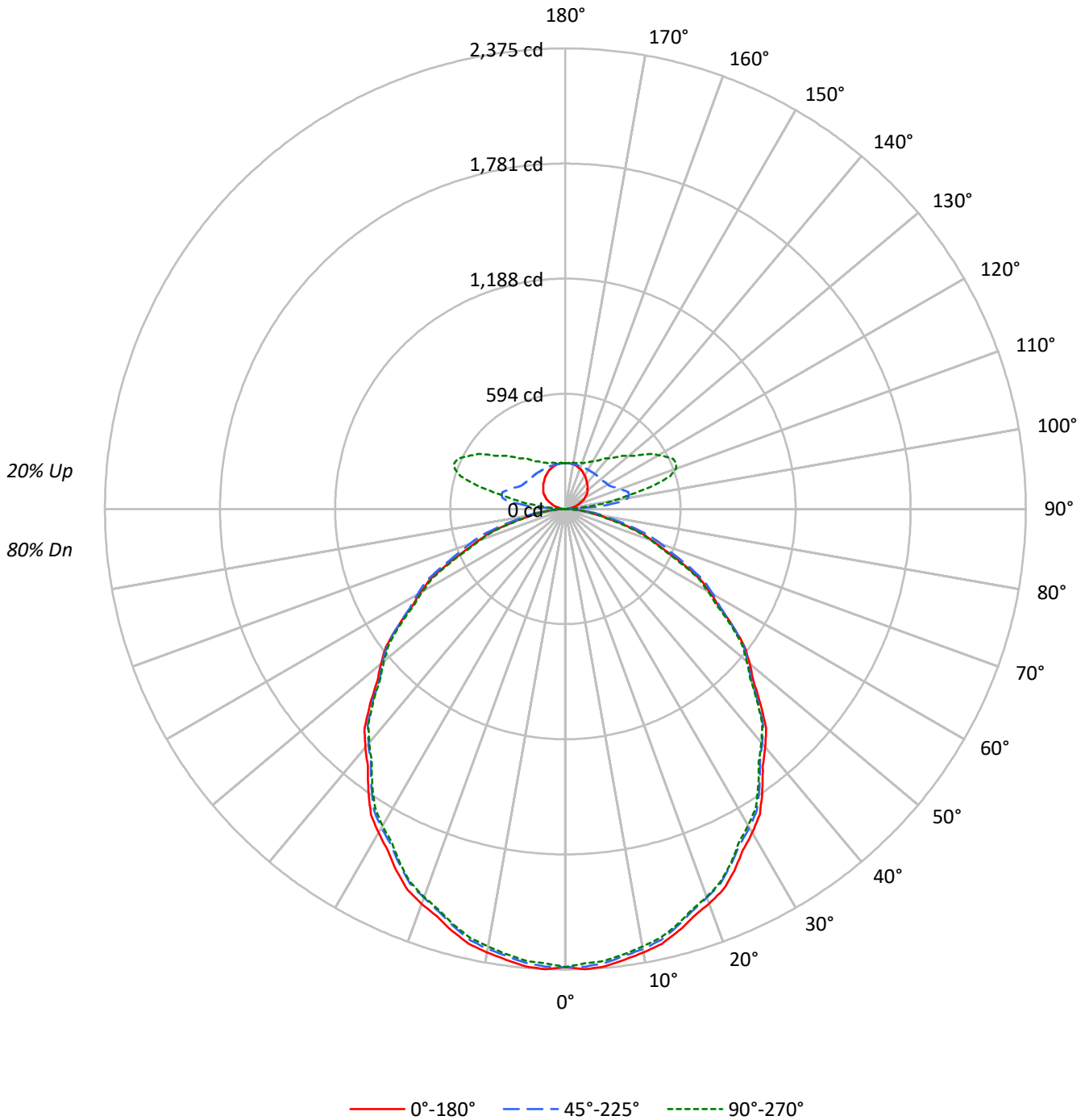
Lumens per Lamp: N/A
Luminaire Lumens: 7547.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	92	89	88	85	83	81	79	77	74	72	71	67
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10296	10263
30°	10265	10109	10043
35°	9973	9832	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8766
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7655	7109
70°	6427	7045	6260
75°	5490	6306	5342
80°	4256	5308	4312
85°	2752	4076	3636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	2.9
10°-20°	627.9	8.3
20°-30°	931.4	12.3
30°-40°	1089.8	14.4
40°-50°	1085.0	14.4
50°-60°	936.9	12.4
60°-70°	674.4	8.9
70°-80°	353.7	4.7
80°-90°	89.0	1.2
90°-100°	115.6	1.5
100°-110°	303.9	4.0
110°-120°	315.1	4.2
120°-130°	252.8	3.3
130°-140°	198.3	2.6
140°-150°	152.2	2.0
150°-160°	109.6	1.5
160°-170°	67.1	0.9
170°-180°	22.7	0.3
0°-30°	1781.7	23.6
0°-40°	2871.6	38.0
0°-60°	4893.5	64.8
0°-90°	6010.5	79.6
90°-120°	734.6	9.7
90°-150°	1337.9	17.7
90°-180°	1537.0	20.4
0°-180°	7547.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2368	2342	2349	2343	2339	224
15°	2254	2225	2229	2224	2220	635
25°	2060	2026	2023	2010	2016	947
35°	1771	1746	1746	1729	1736	1107
45°	1423	1411	1405	1400	1398	1098
55°	1055	1053	1055	1040	1038	941
65°	668	688	701	674	651	662
75°	308	336	354	330	300	330
85°	52	68	77	73	69	69
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2361.9	2361.9	2361.9	2361.9	2361.9
2.5°	2375.2	2355.7	2361.9	2356.6	2345.2
5°	2368.1	2341.7	2349.4	2343.0	2339.0
7.5°	2344.0	2319.6	2325.2	2318.5	2316.1
10°	2322.3	2297.9	2303.6	2295.2	2291.1
12.5°	2297.4	2271.3	2277.0	2268.6	2266.1
15°	2253.7	2225.2	2228.7	2224.4	2220.4
17.5°	2202.9	2174.0	2174.6	2167.9	2167.1
20°	2166.3	2135.7	2133.0	2124.7	2128.8
22.5°	2126.3	2094.2	2091.3	2079.8	2085.5
25°	2060.1	2025.5	2022.7	2010.3	2016.4
27.5°	1983.6	1949.4	1949.4	1932.1	1938.6
30°	1927.0	1894.4	1897.8	1877.2	1885.3
32.5°	1867.0	1837.7	1839.6	1818.9	1827.1
35°	1770.9	1746.5	1745.9	1729.4	1735.5
37.5°	1672.7	1651.1	1647.7	1638.2	1639.8
40°	1604.4	1586.1	1579.4	1573.2	1573.2
42.5°	1532.8	1516.1	1509.5	1504.9	1503.3
45°	1423.4	1411.2	1404.6	1400.4	1398.4
47.5°	1315.2	1303.8	1298.1	1295.1	1293.1
50°	1240.2	1232.1	1229.8	1223.5	1221.5
52.5°	1165.3	1160.4	1158.3	1150.3	1148.3
55°	1055.0	1053.0	1055.0	1040.4	1038.4
57.5°	940.2	943.4	950.2	930.5	925.6
60°	863.6	871.7	880.2	857.2	849.0
62.5°	785.3	798.4	810.3	783.8	772.4
65°	668.0	688.3	701.3	673.7	651.3
67.5°	554.8	580.0	595.6	565.9	540.6
70°	476.5	505.0	522.3	492.5	464.1
72.5°	408.3	440.0	454.1	425.9	397.5
75°	308.0	336.5	353.8	330.2	299.7
77.5°	218.5	245.4	259.7	239.2	213.9
80°	160.2	188.7	199.8	182.7	162.3
82.5°	113.6	137.2	144.8	134.5	120.7
85°	52.0	68.3	77.0	72.7	68.7
87.5°	13.6	25.6	34.1	32.9	34.5
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)