

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: P565025

Luminaire Tested: **SQ4-PW1-125U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565025
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

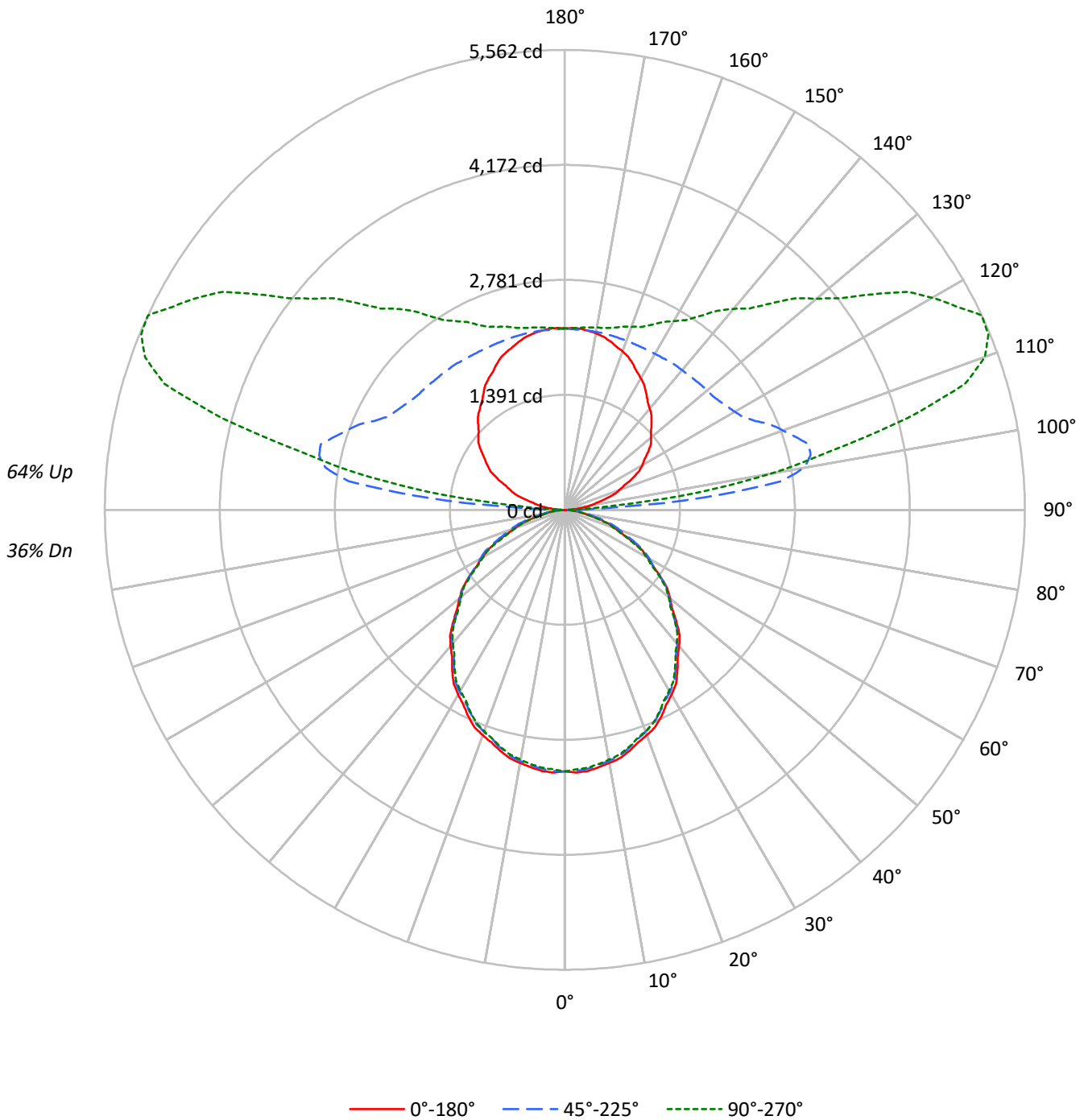
Lumens per Lamp: N/A
Luminaire Lumens: 22208.4 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9790	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8777	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7456
60°	7113	7250	6993
65°	6509	6834	6347
70°	5738	6289	5588
75°	4900	5629	4768
80°	3801	4738	3850
85°	2459	3638	3246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	1.3
10°-20°	840.8	3.8
20°-30°	1247.2	5.6
30°-40°	1459.4	6.6
40°-50°	1452.9	6.5
50°-60°	1254.6	5.6
60°-70°	903.1	4.1
70°-80°	473.6	2.1
80°-90°	122.6	0.6
90°-100°	1025.9	4.6
100°-110°	2763.4	12.4
110°-120°	2900.1	13.1
120°-130°	2353.3	10.6
130°-140°	1845.6	8.3
140°-150°	1417.0	6.4
150°-160°	1018.8	4.6
160°-170°	622.4	2.8
170°-180°	209.9	0.9
0°-30°	2385.9	10.7
0°-40°	3845.2	17.3
0°-60°	6552.7	29.5
0°-90°	8052.0	36.3
90°-120°	6689.3	30.1
90°-150°	12305.3	55.4
90°-180°	14156.0	63.7
0°-180°	22208.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3171	3136	3146	3138	3132	300
15°	3018	2980	2984	2979	2973	851
25°	2759	2712	2708	2692	2700	1269
35°	2371	2339	2338	2316	2324	1482
45°	1906	1890	1881	1875	1873	1471
55°	1413	1410	1413	1393	1390	1261
65°	894	922	939	902	872	886
75°	412	451	474	442	401	442
85°	70	92	103	97	92	92
90°	6	16	34	36	36	13
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3162.7	3162.7	3162.7	3162.7	3162.7
2.5°	3180.6	3154.4	3162.7	3155.7	3140.4
5°	3171.1	3135.7	3146.0	3137.5	3132.1
7.5°	3138.8	3106.1	3113.7	3104.7	3101.4
10°	3109.8	3077.1	3084.7	3073.4	3068.0
12.5°	3076.3	3041.5	3049.0	3037.8	3034.6
15°	3017.8	2979.7	2984.4	2978.7	2973.2
17.5°	2949.8	2911.1	2911.9	2903.0	2901.9
20°	2900.8	2859.9	2856.2	2845.2	2850.6
22.5°	2847.3	2804.2	2800.5	2785.0	2792.7
25°	2758.7	2712.4	2708.5	2692.0	2700.2
27.5°	2656.1	2610.4	2610.4	2587.2	2595.9
30°	2580.3	2536.7	2541.3	2513.7	2524.6
32.5°	2500.1	2460.9	2463.3	2435.7	2446.6
35°	2371.4	2338.7	2337.9	2315.8	2324.0
37.5°	2239.8	2210.9	2206.4	2193.6	2195.8
40°	2148.4	2123.9	2115.0	2106.6	2106.6
42.5°	2052.6	2030.2	2021.4	2015.2	2013.0
45°	1906.0	1889.7	1880.9	1875.3	1872.6
47.5°	1761.1	1745.8	1738.2	1734.3	1731.6
50°	1660.8	1649.9	1646.8	1638.4	1635.7
52.5°	1560.5	1553.9	1551.0	1540.3	1537.6
55°	1412.8	1410.1	1412.8	1393.2	1390.5
57.5°	1259.0	1263.3	1272.3	1246.0	1239.5
60°	1156.4	1167.3	1178.7	1147.8	1136.9
62.5°	1051.6	1069.1	1085.1	1049.6	1034.4
65°	894.5	921.7	939.1	902.2	872.2
67.5°	742.9	776.7	797.5	757.7	723.9
70°	638.1	676.3	699.4	659.5	621.4
72.5°	546.7	589.2	608.0	570.4	532.2
75°	412.4	450.6	473.7	442.1	401.3
77.5°	292.6	328.6	347.8	320.2	286.5
80°	214.6	252.7	267.5	244.6	217.4
82.5°	152.1	183.8	193.9	180.1	161.6
85°	69.7	91.5	103.1	97.4	92.0
87.5°	19.0	36.4	49.1	49.7	51.8
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)