

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: P564768

Luminaire Tested: **SQ4-PW1-075U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564768
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

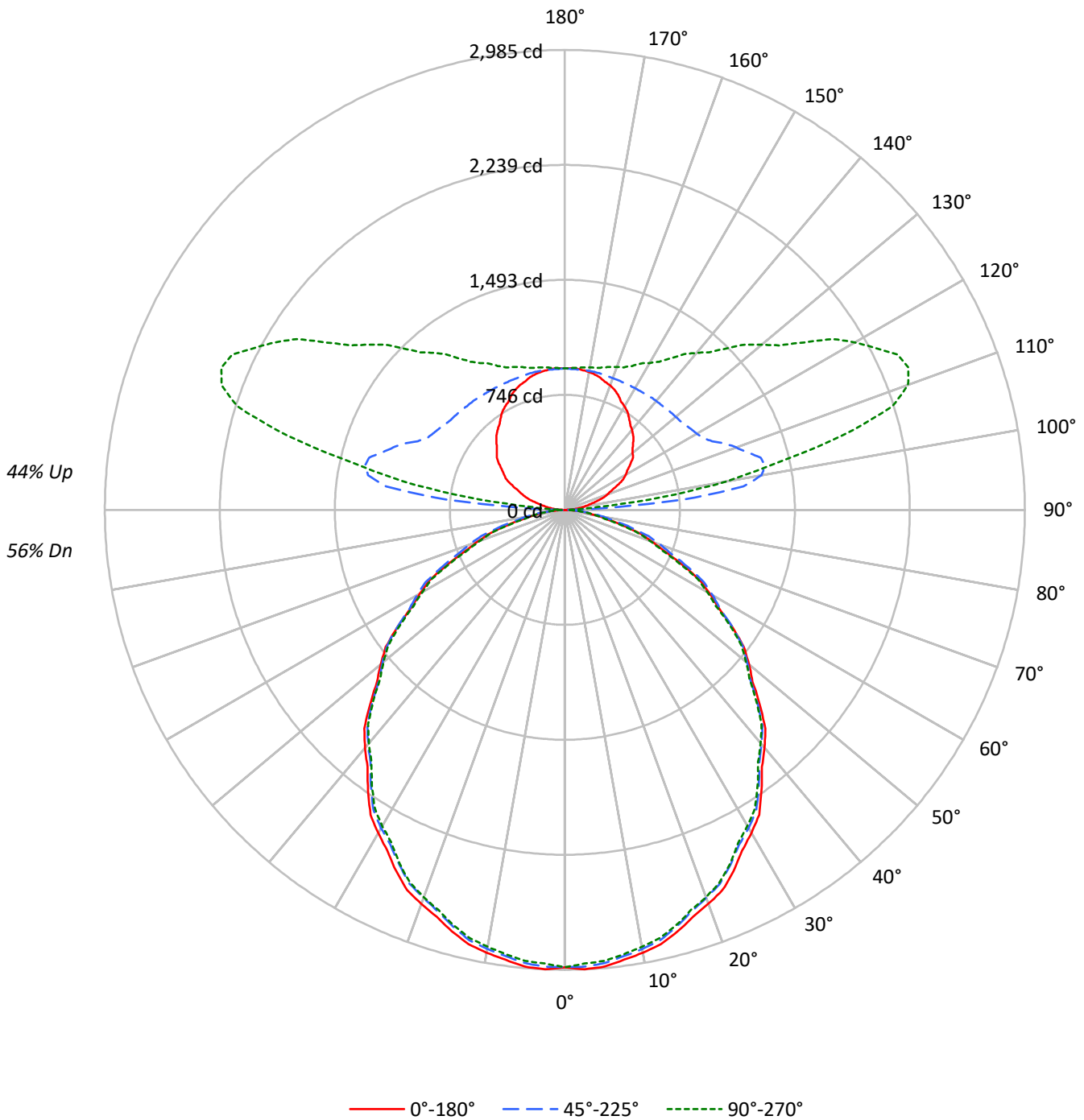
Lumens per Lamp: N/A
Luminaire Lumens: 13541.5 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56				
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40				
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29				
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22				
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20				
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18				
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16				
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13177	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11464
50°	11186	11092	11016
55°	10663	10663	10495
60°	10012	10206	9843
65°	9162	9620	8934
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	2.1
10°-20°	789.1	5.8
20°-30°	1170.5	8.6
30°-40°	1369.6	10.1
40°-50°	1363.5	10.1
50°-60°	1177.4	8.7
60°-70°	847.5	6.3
70°-80°	444.4	3.3
80°-90°	112.5	0.8
90°-100°	433.5	3.2
100°-110°	1192.6	8.8
110°-120°	1231.0	9.1
120°-130°	986.3	7.3
130°-140°	774.7	5.7
140°-150°	593.7	4.4
150°-160°	426.8	3.2
160°-170°	261.0	1.9
170°-180°	88.0	0.6
0°-30°	2239.0	16.5
0°-40°	3608.6	26.6
0°-60°	6149.5	45.4
0°-90°	7553.9	55.8
90°-120°	2857.1	21.1
90°-150°	5211.7	38.5
90°-180°	5988.0	44.2
0°-180°	13541.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2976	2943	2952	2944	2939	282
15°	2832	2796	2801	2795	2790	798
25°	2589	2545	2542	2526	2534	1190
35°	2225	2195	2194	2173	2181	1391
45°	1789	1773	1765	1760	1757	1380
55°	1326	1323	1326	1308	1305	1183
65°	839	865	881	847	818	832
75°	387	423	445	415	377	415
85°	65	86	97	91	86	86
90°	2	8	14	18	18	7
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

TEST NUMBER: P564768

CATALOG NUMBER: SQ4-PW1-075U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2968.1	2968.1	2968.1	2968.1	2968.1
2.5°	2984.8	2960.3	2968.1	2961.5	2947.2
5°	2975.9	2942.7	2952.4	2944.4	2939.3
7.5°	2945.6	2914.9	2922.1	2913.6	2910.6
10°	2918.4	2887.7	2894.9	2884.3	2879.2
12.5°	2887.0	2854.3	2861.4	2850.9	2847.8
15°	2832.1	2796.3	2800.7	2795.4	2790.3
17.5°	2768.3	2732.0	2732.7	2724.3	2723.3
20°	2722.3	2683.9	2680.4	2670.1	2675.2
22.5°	2672.1	2631.7	2628.1	2613.6	2620.8
25°	2588.9	2545.4	2541.8	2526.3	2534.0
27.5°	2492.7	2449.7	2449.8	2428.0	2436.2
30°	2421.5	2380.6	2384.9	2359.0	2369.2
32.5°	2346.2	2309.4	2311.7	2285.8	2296.0
35°	2225.4	2194.7	2194.0	2173.3	2181.0
37.5°	2102.0	2074.9	2070.6	2058.6	2060.7
40°	2016.2	1993.2	1984.8	1977.0	1977.0
42.5°	1926.2	1905.3	1897.0	1891.2	1889.1
45°	1788.7	1773.4	1765.2	1759.9	1757.3
47.5°	1652.7	1638.4	1631.3	1627.6	1625.0
50°	1558.6	1548.3	1545.5	1537.6	1535.0
52.5°	1464.4	1458.3	1455.5	1445.5	1443.0
55°	1325.8	1323.3	1325.8	1307.5	1304.9
57.5°	1181.5	1185.6	1194.0	1169.3	1163.2
60°	1085.2	1095.5	1106.2	1077.2	1066.9
62.5°	986.9	1003.3	1018.3	985.0	970.7
65°	839.4	865.0	881.3	846.6	818.5
67.5°	697.2	728.9	748.4	711.1	679.4
70°	598.8	634.6	656.4	619.0	583.2
72.5°	513.1	553.0	570.6	535.3	499.5
75°	387.0	422.8	444.6	414.9	376.6
77.5°	274.6	308.3	326.4	300.5	268.8
80°	201.4	237.2	251.0	229.5	204.0
82.5°	142.8	172.4	182.0	169.1	151.7
85°	65.4	85.8	96.8	91.4	86.3
87.5°	17.1	32.6	42.5	43.3	45.4
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1

TEST NUMBER: P564768

CATALOG NUMBER: SQ4-PW1-075U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)