

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: P564764

Luminaire Tested: **SQ4-PW1-075U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564764
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

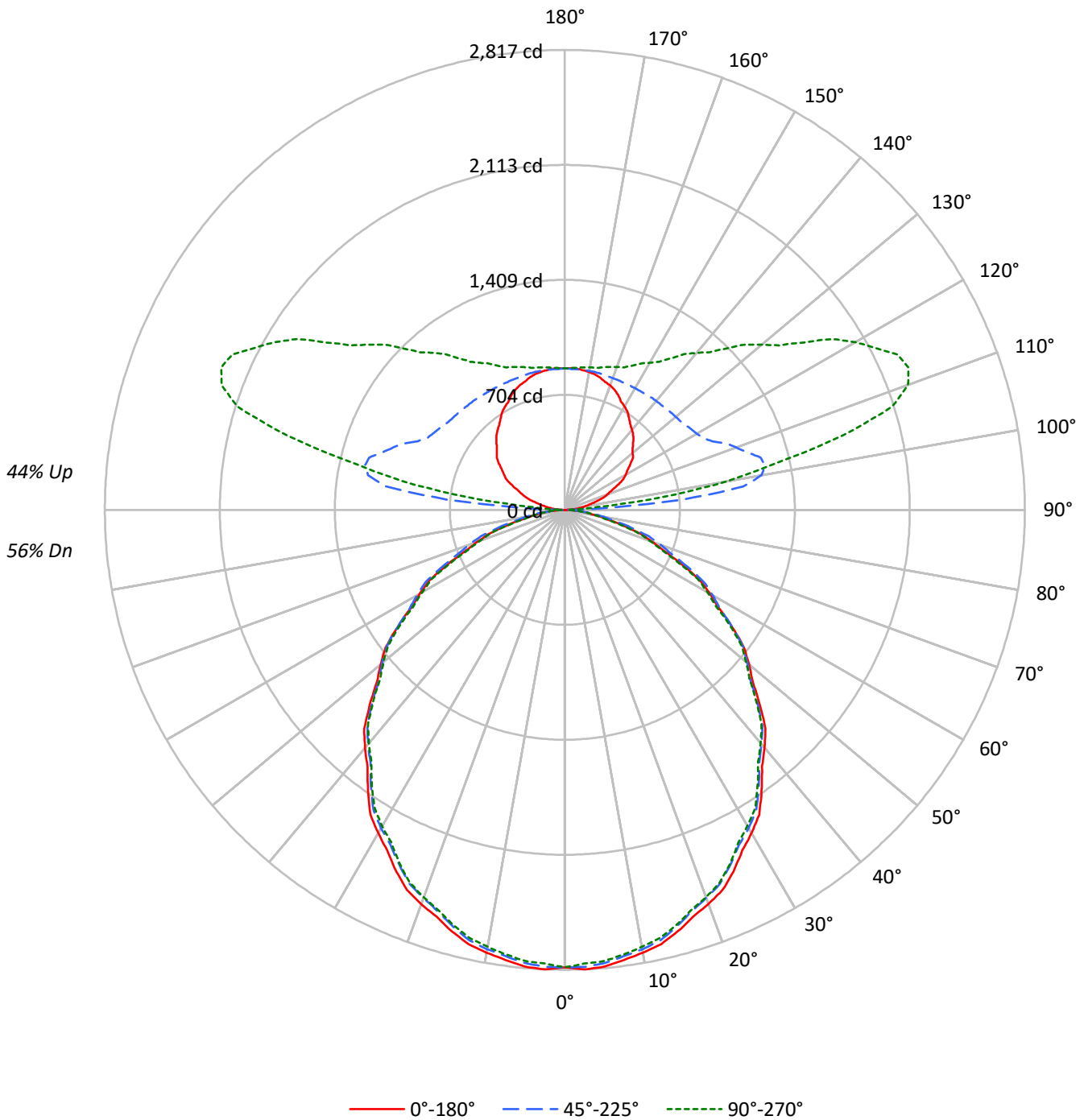
Lumens per Lamp: N/A
Luminaire Lumens: 12781.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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°	12924	12924	12924
5°	13008	12904	12847
10°	12904	12799	12730
15°	12767	12625	12578
20°	12614	12420	12396
25°	12438	12212	12174
30°	12175	11991	11912
35°	11829	11662	11593
40°	11460	11282	11238
45°	11014	10869	10821
50°	10558	10469	10398
55°	10065	10065	9906
60°	9451	9633	9292
65°	8648	9080	8433
70°	7623	8357	7424
75°	6511	7479	6335
80°	5050	6296	5114
85°	3266	4832	4314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	2.1
10°-20°	744.8	5.8
20°-30°	1104.8	8.6
30°-40°	1292.7	10.1
40°-50°	1287.0	10.1
50°-60°	1111.3	8.7
60°-70°	800.0	6.3
70°-80°	419.5	3.3
80°-90°	106.2	0.8
90°-100°	409.2	3.2
100°-110°	1125.7	8.8
110°-120°	1161.9	9.1
120°-130°	931.0	7.3
130°-140°	731.2	5.7
140°-150°	560.3	4.4
150°-160°	402.9	3.2
160°-170°	246.4	1.9
170°-180°	83.0	0.6
0°-30°	2113.4	16.5
0°-40°	3406.1	26.6
0°-60°	5804.4	45.4
0°-90°	7130.1	55.8
90°-120°	2696.8	21.1
90°-150°	4919.3	38.5
90°-180°	5652.0	44.2
0°-180°	12781.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2802	2802	2802	2802	2802	
5°	2809	2778	2787	2779	2774	266
15°	2673	2639	2644	2638	2634	753
25°	2444	2403	2399	2385	2392	1124
35°	2100	2072	2071	2051	2059	1313
45°	1688	1674	1666	1661	1659	1303
55°	1251	1249	1251	1234	1232	1117
65°	792	816	832	799	773	785
75°	365	399	420	392	355	392
85°	62	81	91	86	82	81
90°	2	7	13	17	17	6
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2801.6	2801.6	2801.6	2801.6	2801.6
2.5°	2817.4	2794.2	2801.6	2795.3	2781.8
5°	2809.0	2777.6	2786.7	2779.2	2774.4
7.5°	2780.3	2751.4	2758.1	2750.1	2747.3
10°	2754.7	2725.7	2732.4	2722.5	2717.6
12.5°	2725.0	2694.1	2700.8	2690.9	2688.0
15°	2673.2	2639.4	2643.6	2638.5	2633.7
17.5°	2613.0	2578.7	2579.4	2571.5	2570.5
20°	2569.5	2533.3	2530.0	2520.3	2525.1
22.5°	2522.1	2484.0	2480.7	2467.0	2473.8
25°	2443.6	2402.6	2399.2	2384.6	2391.8
27.5°	2352.8	2312.3	2312.3	2291.8	2299.5
30°	2285.7	2247.1	2251.1	2226.7	2236.3
32.5°	2214.6	2179.8	2182.0	2157.5	2167.2
35°	2100.5	2071.6	2070.9	2051.3	2058.6
37.5°	1984.0	1958.5	1954.4	1943.1	1945.0
40°	1903.1	1881.4	1873.5	1866.1	1866.1
42.5°	1818.2	1798.4	1790.5	1785.1	1783.1
45°	1688.3	1673.9	1666.1	1661.1	1658.7
47.5°	1560.0	1546.5	1539.7	1536.2	1533.8
50°	1471.1	1461.5	1458.8	1451.3	1448.9
52.5°	1382.3	1376.5	1373.9	1364.4	1362.0
55°	1251.4	1249.0	1251.4	1234.1	1231.7
57.5°	1115.2	1119.1	1127.0	1103.7	1097.9
60°	1024.4	1034.0	1044.1	1016.7	1007.1
62.5°	931.5	947.0	961.2	929.8	916.2
65°	792.3	816.5	831.8	799.1	772.6
67.5°	658.1	688.0	706.4	671.2	641.3
70°	565.2	599.0	619.6	584.2	550.4
72.5°	484.3	521.9	538.6	505.2	471.5
75°	365.3	399.1	419.6	391.6	355.4
77.5°	259.2	291.0	308.0	283.7	253.7
80°	190.1	223.9	237.0	216.7	192.5
82.5°	134.8	162.8	171.8	159.6	143.2
85°	61.7	81.0	91.3	86.3	81.5
87.5°	16.2	30.8	40.1	40.9	42.8
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)