

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: P563889

Luminaire Tested: **SQ4-PR1-025U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563889
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9964.9 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

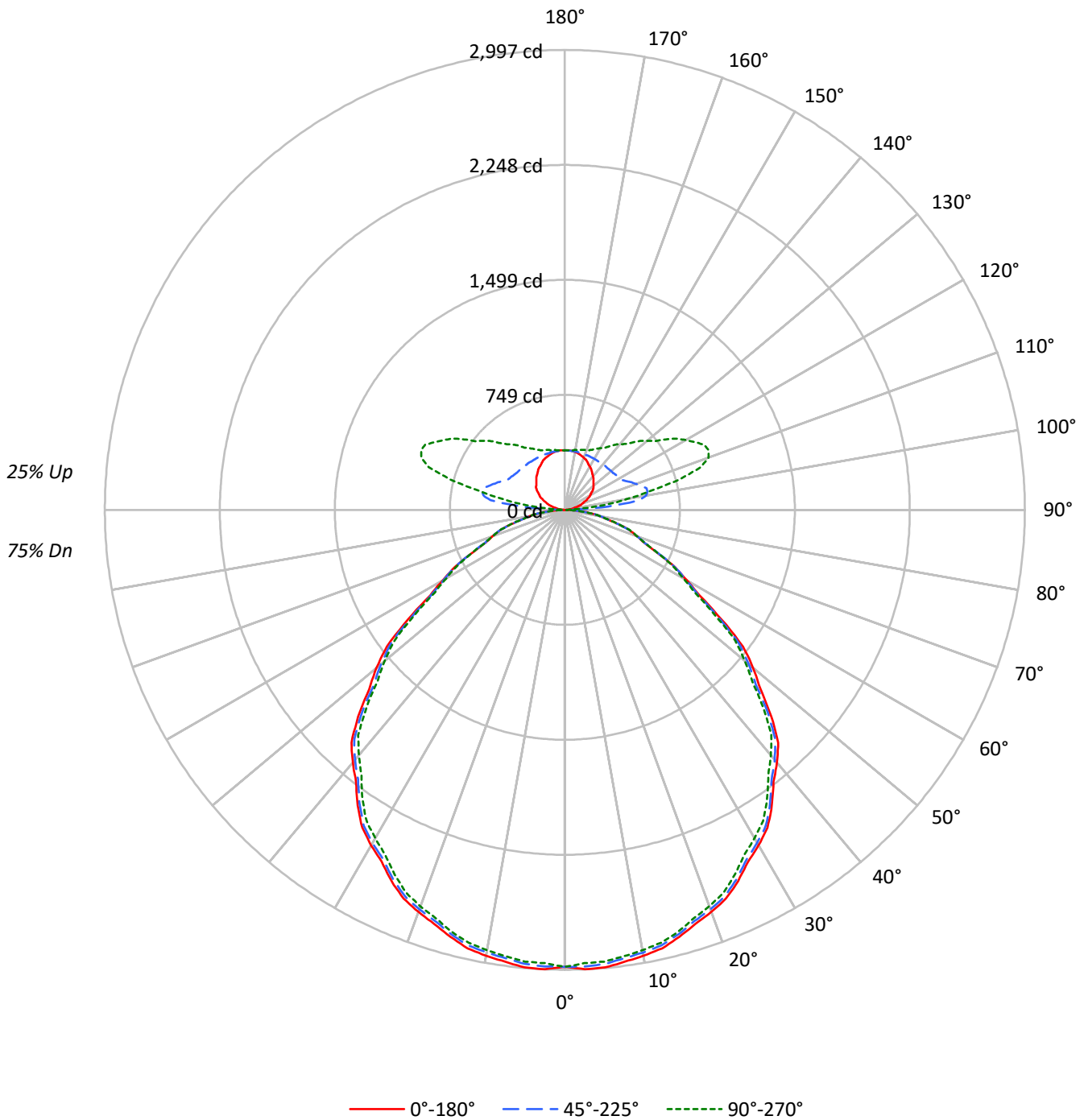
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6533	6396
60°	5633	5586	5475
65°	4872	4891	4853
70°	4474	4498	4498
75°	4298	4298	4328
80°	4043	4089	4043
85°	3257	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	2.8
10°-20°	805.8	8.1
20°-30°	1215.3	12.2
30°-40°	1448.1	14.5
40°-50°	1427.7	14.3
50°-60°	1091.1	10.9
60°-70°	675.2	6.8
70°-80°	383.5	3.8
80°-90°	118.7	1.2
90°-100°	189.3	1.9
100°-110°	497.7	5.0
110°-120°	516.1	5.2
120°-130°	414.0	4.2
130°-140°	324.8	3.3
140°-150°	249.3	2.5
150°-160°	179.6	1.8
160°-170°	109.9	1.1
170°-180°	37.1	0.4
0°-30°	2302.7	23.1
0°-40°	3750.8	37.6
0°-60°	6269.6	62.9
0°-90°	7447.0	74.7
90°-120°	1203.2	12.1
90°-150°	2191.3	22.0
90°-180°	2518.0	25.3
0°-180°	9964.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2994	2961	2970	2960	2955	284
15°	2881	2850	2863	2852	2847	813
25°	2670	2638	2652	2624	2622	1229
35°	2352	2325	2332	2301	2298	1468
45°	1903	1878	1870	1836	1832	1458
55°	1247	1227	1218	1198	1193	1117
65°	670	664	672	667	667	678
75°	362	362	362	364	364	382
85°	92	97	103	103	103	107
90°	2	7	20	10	10	6
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2978.1	2978.1	2978.1	2978.1	2978.1
2.5°	2996.6	2970.5	2978.1	2971.6	2957.6
5°	2993.5	2960.9	2970.4	2960.0	2955.0
7.5°	2970.4	2938.3	2947.8	2937.5	2934.5
10°	2949.9	2919.8	2929.4	2919.0	2914.0
12.5°	2927.3	2895.2	2906.8	2894.4	2889.4
15°	2880.6	2850.5	2862.7	2852.3	2847.3
17.5°	2829.3	2797.2	2809.3	2797.4	2790.9
20°	2788.3	2758.2	2770.3	2752.3	2749.8
22.5°	2743.1	2713.1	2725.2	2701.1	2700.6
25°	2670.3	2637.7	2652.3	2624.1	2621.6
27.5°	2583.6	2553.5	2565.6	2536.8	2533.8
30°	2524.1	2494.0	2506.1	2475.2	2470.2
32.5°	2456.4	2428.3	2438.4	2407.6	2404.6
35°	2352.2	2324.6	2331.7	2300.9	2298.4
37.5°	2233.7	2208.6	2212.7	2178.8	2176.3
40°	2149.6	2124.5	2126.5	2090.5	2088.0
42.5°	2057.2	2032.2	2030.0	1994.1	1991.6
45°	1903.3	1878.2	1870.0	1836.5	1831.5
47.5°	1727.9	1702.8	1687.3	1660.1	1656.6
50°	1600.6	1575.6	1562.2	1538.9	1531.4
52.5°	1463.1	1438.1	1426.7	1405.5	1398.0
55°	1246.7	1226.6	1218.4	1197.8	1192.8
57.5°	1040.9	1027.4	1025.0	1005.0	1003.0
60°	915.8	908.2	908.1	890.1	890.1
62.5°	809.0	803.5	807.5	795.7	793.7
65°	669.5	664.5	672.1	666.9	666.9
67.5°	559.2	559.2	563.8	561.8	561.8
70°	497.6	497.6	500.2	500.2	500.2
72.5°	442.2	440.2	446.8	446.8	444.8
75°	361.7	361.7	361.7	364.2	364.2
77.5°	281.7	282.2	284.2	283.7	281.7
80°	228.3	230.8	230.9	228.3	228.3
82.5°	174.9	177.4	177.5	176.9	174.9
85°	92.3	97.4	102.6	102.6	102.6
87.5°	27.2	36.2	45.0	43.0	41.0
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)