

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: P564561

Luminaire Tested: **SQ4-PW1-025U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564561
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-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

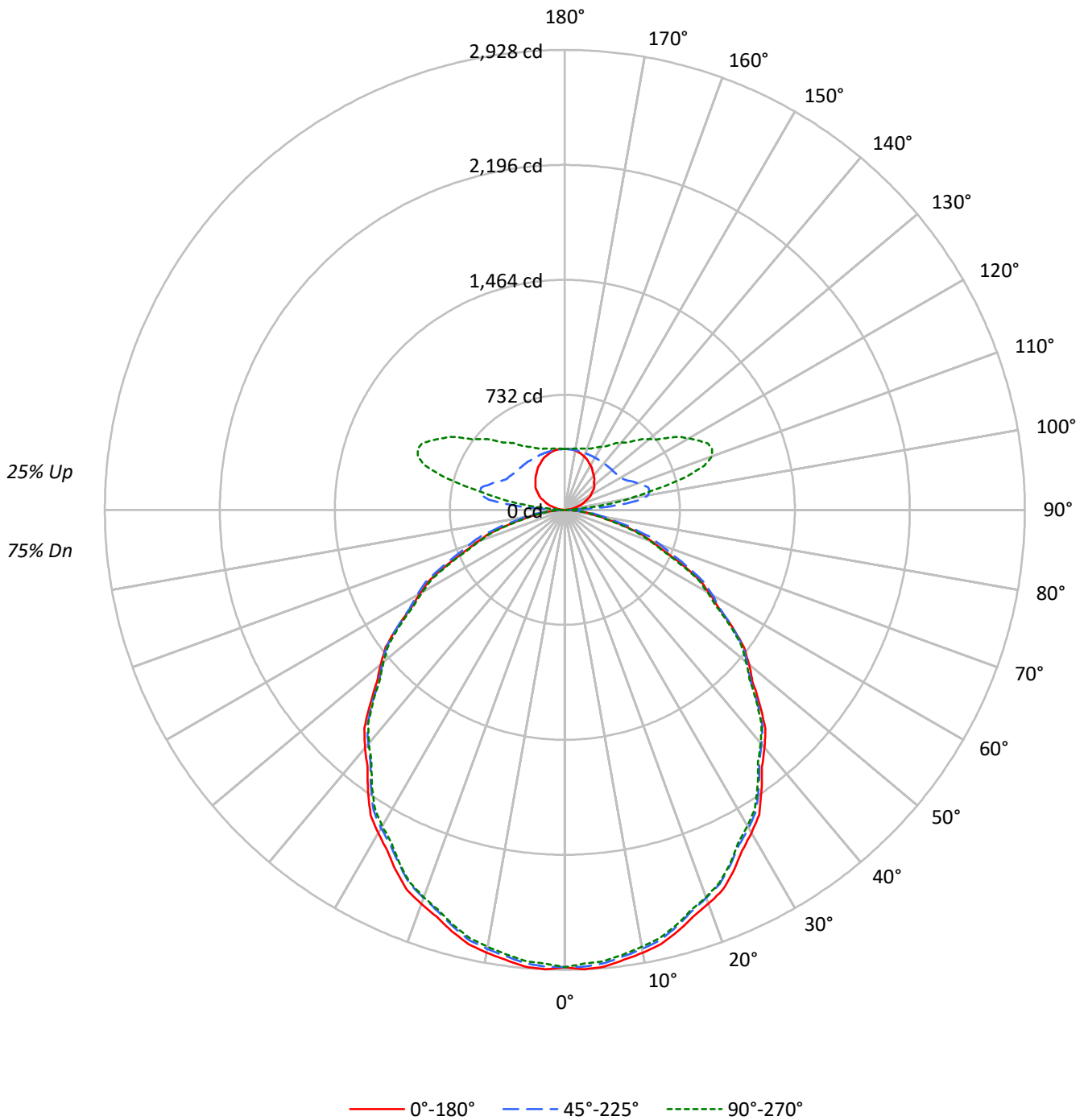
Lumens per Lamp: N/A
Luminaire Lumens: 9927.4 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7940	7816	7785
45°	7631	7531	7497
50°	7315	7253	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5143
75°	4511	5182	4389
80°	3498	4362	3544
85°	2262	3349	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	2.8
10°-20°	774.0	7.8
20°-30°	1148.1	11.6
30°-40°	1343.4	13.5
40°-50°	1337.4	13.5
50°-60°	1154.9	11.6
60°-70°	831.3	8.4
70°-80°	435.9	4.4
80°-90°	110.2	1.1
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°	2196.3	22.1
0°-40°	3539.7	35.7
0°-60°	6032.1	60.8
0°-90°	7409.5	74.6
90°-120°	1203.2	12.1
90°-150°	2191.3	22.1
90°-180°	2518.0	25.4
0°-180°	9927.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2919	2886	2896	2888	2883	276
15°	2778	2743	2747	2742	2737	783
25°	2540	2497	2493	2478	2486	1168
35°	2183	2153	2152	2132	2139	1365
45°	1755	1740	1732	1726	1724	1354
55°	1300	1298	1300	1282	1280	1160
65°	823	848	864	830	803	816
75°	380	415	436	407	369	407
85°	64	84	95	90	85	85
90°	2	7	20	10	10	4
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°	2911.4	2911.4	2911.4	2911.4	2911.4
2.5°	2927.8	2903.8	2911.4	2905.0	2890.9
5°	2919.1	2886.5	2896.0	2888.2	2883.2
7.5°	2889.4	2859.3	2866.3	2858.0	2855.0
10°	2862.7	2832.6	2839.6	2829.2	2824.2
12.5°	2831.9	2799.8	2806.8	2796.4	2793.4
15°	2778.0	2742.9	2747.3	2742.0	2737.0
17.5°	2715.5	2679.8	2680.6	2672.3	2671.3
20°	2670.3	2632.7	2629.3	2619.1	2624.1
22.5°	2621.1	2581.4	2578.0	2563.8	2570.8
25°	2539.5	2496.8	2493.3	2478.1	2485.6
27.5°	2445.1	2403.0	2403.0	2381.7	2389.7
30°	2375.3	2335.2	2339.4	2314.0	2324.0
32.5°	2301.4	2265.3	2267.6	2242.2	2252.2
35°	2182.9	2152.8	2152.1	2131.8	2139.3
37.5°	2061.9	2035.3	2031.1	2019.3	2021.3
40°	1977.7	1955.1	1946.9	1939.2	1939.2
42.5°	1889.5	1868.9	1860.7	1855.1	1853.1
45°	1754.6	1739.5	1731.5	1726.3	1723.8
47.5°	1621.2	1607.1	1600.1	1596.5	1594.0
50°	1528.8	1518.8	1516.0	1508.2	1505.7
52.5°	1436.5	1430.5	1427.8	1417.9	1415.4
55°	1300.5	1298.0	1300.5	1282.5	1280.0
57.5°	1158.9	1162.9	1171.2	1147.0	1141.0
60°	1064.5	1074.6	1085.1	1056.6	1046.6
62.5°	968.1	984.1	998.9	966.2	952.2
65°	823.4	848.5	864.5	830.5	802.9
67.5°	683.9	715.0	734.1	697.5	666.4
70°	587.4	622.5	643.8	607.1	572.0
72.5°	503.3	542.4	559.7	525.1	489.9
75°	379.6	414.8	436.1	407.0	369.4
77.5°	269.3	302.4	320.1	294.8	263.7
80°	197.5	232.6	246.3	225.2	200.1
82.5°	140.1	169.2	178.5	165.8	148.8
85°	64.1	84.2	94.9	89.7	84.6
87.5°	16.9	31.9	43.0	41.0	43.0
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)