

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: P563217

Luminaire Tested: **SQ4-PP3-025U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563217
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 10009.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

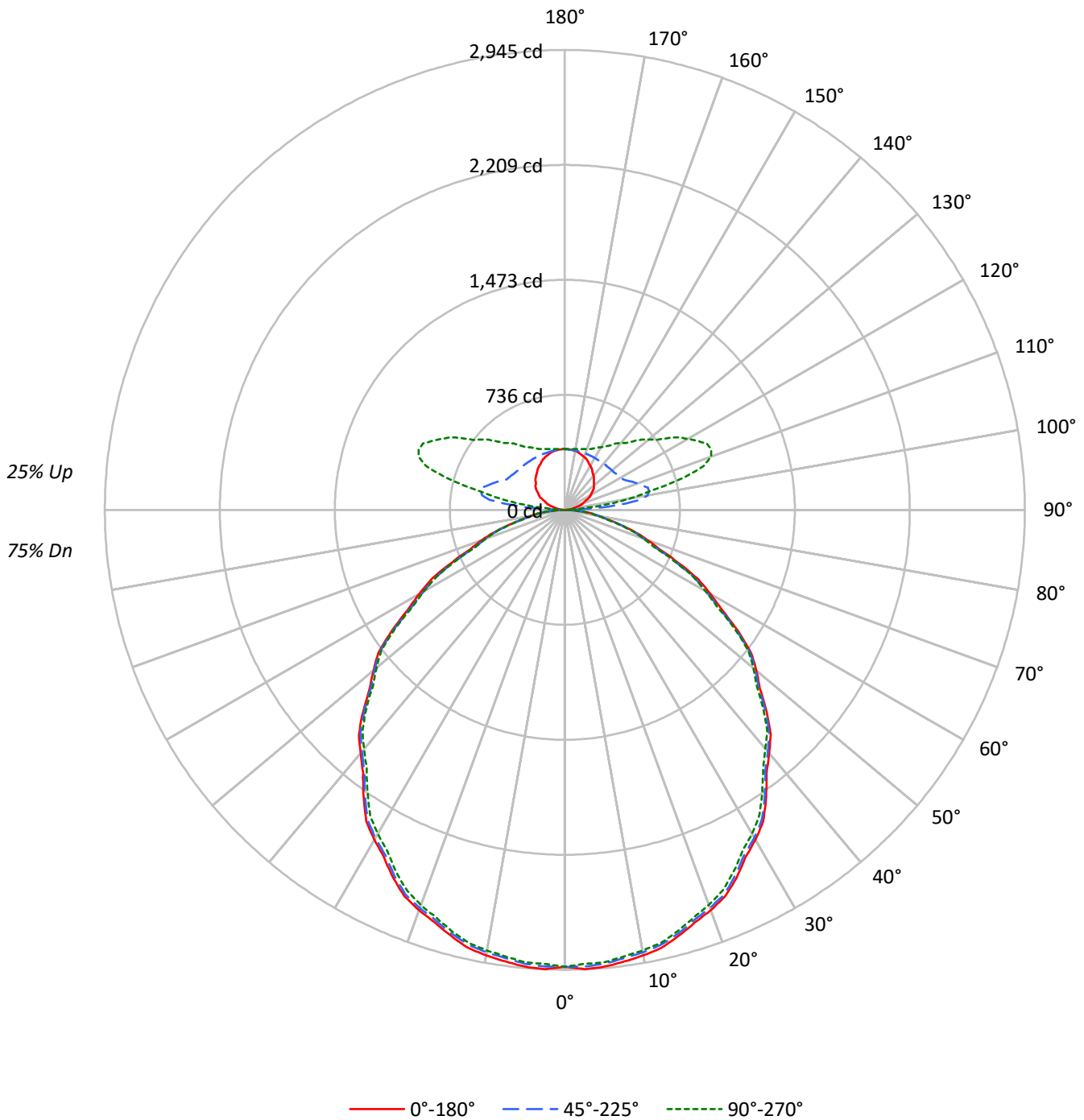
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54				
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39				
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27				
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7657	7607	7534
55°	7260	7164	7109
60°	6609	6420	6388
65°	5822	5580	5561
70°	5027	4820	4820
75°	4328	4266	4205
80°	3815	3861	3771
85°	2985	3257	3257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	2.8
10°-20°	790.1	7.9
20°-30°	1183.4	11.8
30°-40°	1388.0	13.9
40°-50°	1392.4	13.9
50°-60°	1187.8	11.9
60°-70°	774.7	7.7
70°-80°	388.6	3.9
80°-90°	109.7	1.1
90°-100°	189.3	1.9
100°-110°	497.7	5.0
110°-120°	516.1	5.2
120°-130°	414.0	4.1
130°-140°	324.8	3.2
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°	2250.1	22.5
0°-40°	3638.2	36.3
0°-60°	6218.4	62.1
0°-90°	7491.4	74.8
90°-120°	1203.2	12.0
90°-150°	2191.3	21.9
90°-180°	2518.0	25.2
0°-180°	10009.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2936	2909	2918	2908	2908	279
15°	2824	2796	2808	2798	2793	797
25°	2600	2570	2582	2559	2557	1196
35°	2246	2224	2231	2205	2203	1403
45°	1826	1813	1813	1795	1795	1406
55°	1354	1349	1336	1328	1326	1203
65°	800	785	767	762	764	799
75°	364	364	359	356	354	395
85°	85	92	92	92	92	99
90°	2	7	20	10	10	5
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°	2926.1	2926.1	2926.1	2926.1	2926.1
2.5°	2944.6	2920.5	2926.1	2921.7	2909.7
5°	2936.4	2908.8	2918.4	2908.2	2908.2
7.5°	2916.4	2886.3	2895.9	2885.6	2885.1
10°	2897.9	2867.8	2877.4	2867.1	2864.6
12.5°	2871.2	2841.2	2852.8	2840.5	2840.0
15°	2823.5	2796.0	2808.2	2797.8	2792.8
17.5°	2769.7	2739.6	2754.3	2739.9	2737.9
20°	2728.7	2698.6	2713.3	2692.8	2692.8
22.5°	2679.4	2649.3	2666.1	2639.4	2639.4
25°	2600.4	2570.3	2582.5	2559.3	2556.8
27.5°	2506.6	2477.0	2489.6	2463.5	2463.0
30°	2438.9	2411.3	2426.0	2397.8	2395.3
32.5°	2365.0	2339.4	2350.1	2321.9	2319.4
35°	2246.5	2224.0	2231.1	2205.4	2202.9
37.5°	2121.9	2098.8	2107.0	2084.9	2083.9
40°	2033.7	2018.6	2020.8	2002.8	1997.8
42.5°	1951.6	1934.6	1936.7	1918.8	1917.8
45°	1825.9	1813.4	1813.1	1795.2	1795.2
47.5°	1692.6	1683.1	1680.3	1665.4	1664.9
50°	1600.3	1592.7	1590.0	1577.1	1574.6
52.5°	1503.8	1500.3	1491.5	1480.7	1480.2
55°	1354.1	1349.1	1336.1	1328.4	1325.9
57.5°	1191.5	1181.4	1166.9	1155.6	1157.6
60°	1074.5	1064.5	1043.8	1038.6	1038.6
62.5°	961.7	949.7	928.9	921.8	925.8
65°	800.1	785.1	766.8	761.7	764.2
67.5°	653.4	639.9	620.1	620.1	618.1
70°	559.1	551.5	536.0	536.0	536.0
72.5°	475.0	471.4	460.1	460.0	458.0
75°	364.2	364.2	359.0	356.4	353.9
77.5°	272.9	273.9	271.3	268.7	264.1
80°	215.4	220.4	218.0	215.4	212.9
82.5°	162.1	167.1	166.7	162.1	161.6
85°	84.6	92.2	92.3	92.3	92.3
87.5°	23.1	32.1	36.8	34.9	36.9
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)