

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: P519417

Luminaire Tested: **SQ4-WB-100U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519417
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-100U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

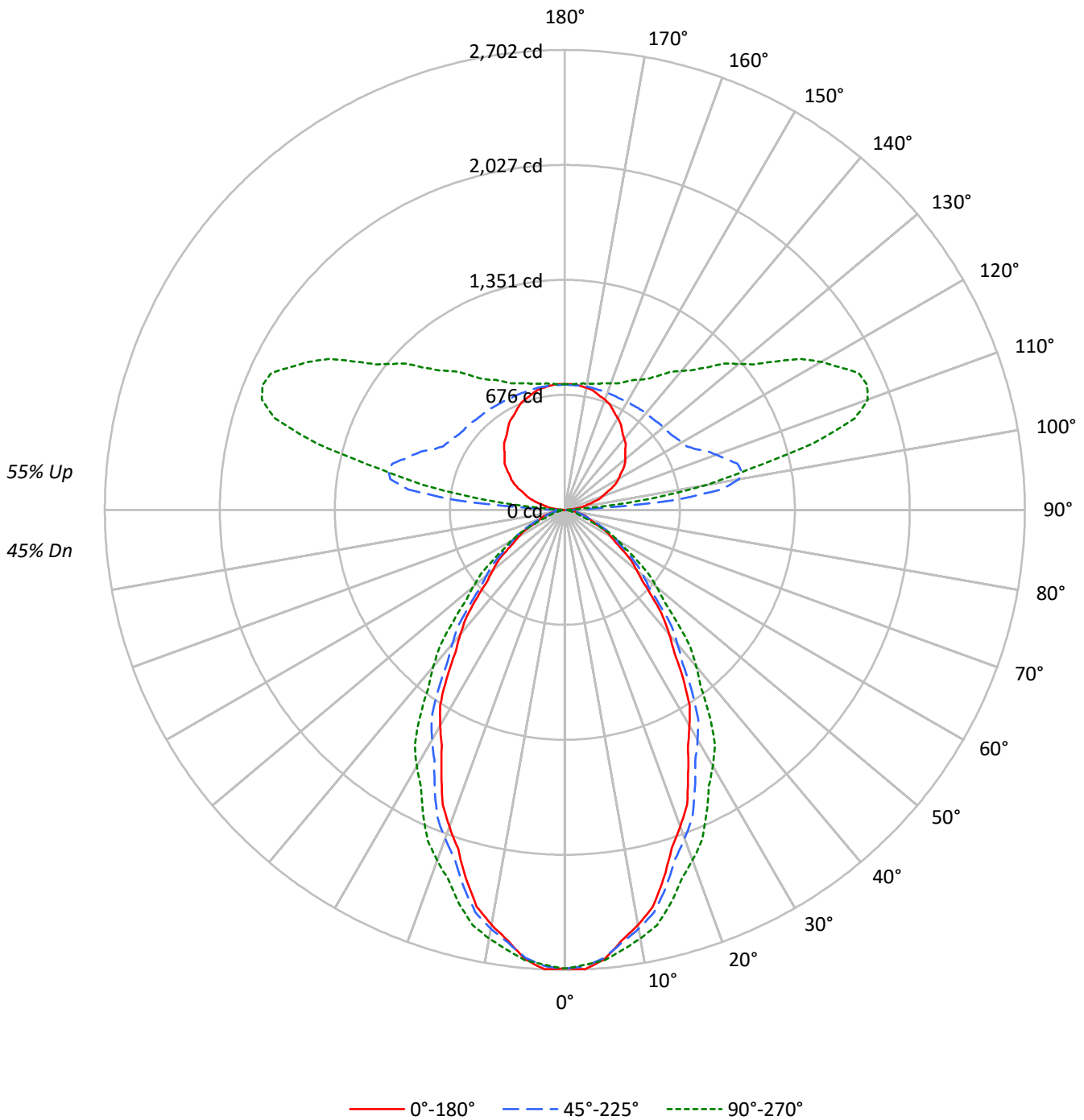
Lumens per Lamp: N/A
Luminaire Lumens: 8723.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	89	86	83	81	72	70	68	59	58	56	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	37	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	22
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14278	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9751	11144
40°	7654	8261	9648
45°	6317	6861	8055
50°	5273	5749	6711
55°	4477	4934	5542
60°	3826	4277	4422
65°	3046	3598	2857
70°	2701	2807	1744
75°	2502	2277	1067
80°	2302	2093	921
85°	2089	1920	748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	2.8
10°-20°	643.0	7.4
20°-30°	832.9	9.5
30°-40°	815.6	9.4
40°-50°	624.3	7.2
50°-60°	416.0	4.8
60°-70°	227.0	2.6
70°-80°	94.6	1.1
80°-90°	28.3	0.3
90°-100°	345.5	4.0
100°-110°	953.9	10.9
110°-120°	983.8	11.3
120°-130°	790.5	9.1
130°-140°	621.3	7.1
140°-150°	476.5	5.5
150°-160°	342.5	3.9
160°-170°	209.4	2.4
170°-180°	70.6	0.8
0°-30°	1723.2	19.8
0°-40°	2538.8	29.1
0°-60°	3579.1	41.0
0°-90°	3929.1	45.0
90°-120°	2283.2	26.2
90°-150°	4171.5	47.8
90°-180°	4794.0	55.0
0°-180°	8723.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2652	2625	2642	2648	2657	247
15°	2242	2234	2294	2357	2397	626
25°	1714	1718	1807	1886	1969	788
35°	1211	1217	1299	1386	1484	753
45°	726	740	789	848	926	566
55°	418	435	460	478	517	379
65°	209	227	247	216	196	218
75°	105	105	96	66	45	112
85°	30	30	27	18	11	32
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2701.9	2677.9	2683.9	2683.8	2676.4
5°	2651.5	2624.9	2642.1	2648.2	2657.4
7.5°	2553.1	2533.0	2564.2	2587.4	2606.1
10°	2476.5	2459.1	2499.0	2532.6	2556.9
12.5°	2387.6	2373.0	2422.3	2467.5	2499.2
15°	2242.3	2234.2	2294.4	2356.8	2397.2
17.5°	2086.9	2083.0	2152.0	2224.8	2276.6
20°	1981.0	1979.8	2055.5	2131.3	2191.5
22.5°	1874.0	1876.6	1956.1	2035.0	2103.5
25°	1713.7	1718.3	1807.1	1885.9	1969.1
27.5°	1565.4	1567.4	1659.3	1742.4	1831.2
30°	1464.1	1469.9	1559.9	1646.0	1738.5
32.5°	1362.9	1369.6	1457.7	1546.7	1641.1
35°	1211.0	1216.8	1298.6	1385.9	1484.2
37.5°	1054.5	1062.3	1134.9	1217.5	1314.2
40°	953.2	964.8	1028.9	1106.8	1201.6
42.5°	855.8	870.1	929.6	1003.4	1089.0
45°	726.2	740.0	788.8	848.5	926.0
47.5°	614.5	630.5	668.0	719.4	785.5
50°	551.1	566.2	600.8	638.9	701.3
52.5°	495.3	510.3	541.2	570.5	623.7
55°	417.5	434.8	460.1	477.5	516.8
57.5°	353.6	370.3	390.3	398.2	422.0
60°	311.0	329.5	347.7	346.8	359.5
62.5°	272.2	288.0	306.1	293.6	294.2
65°	209.3	226.7	247.2	216.0	196.3
67.5°	169.1	172.8	194.0	150.6	127.3
70°	150.2	150.2	156.1	116.6	97.0
72.5°	132.2	132.2	126.8	94.9	74.3
75°	105.3	105.3	95.8	65.8	44.9
77.5°	81.1	80.2	73.3	49.1	32.6
80°	65.0	65.0	59.1	38.7	26.0
82.5°	50.9	50.9	45.9	30.3	19.4
85°	29.6	29.6	27.2	17.6	10.6
87.5°	10.9	11.3	11.4	7.8	7.1
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)