

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: P519225

Luminaire Tested: **SQ4-WB-075U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519225
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

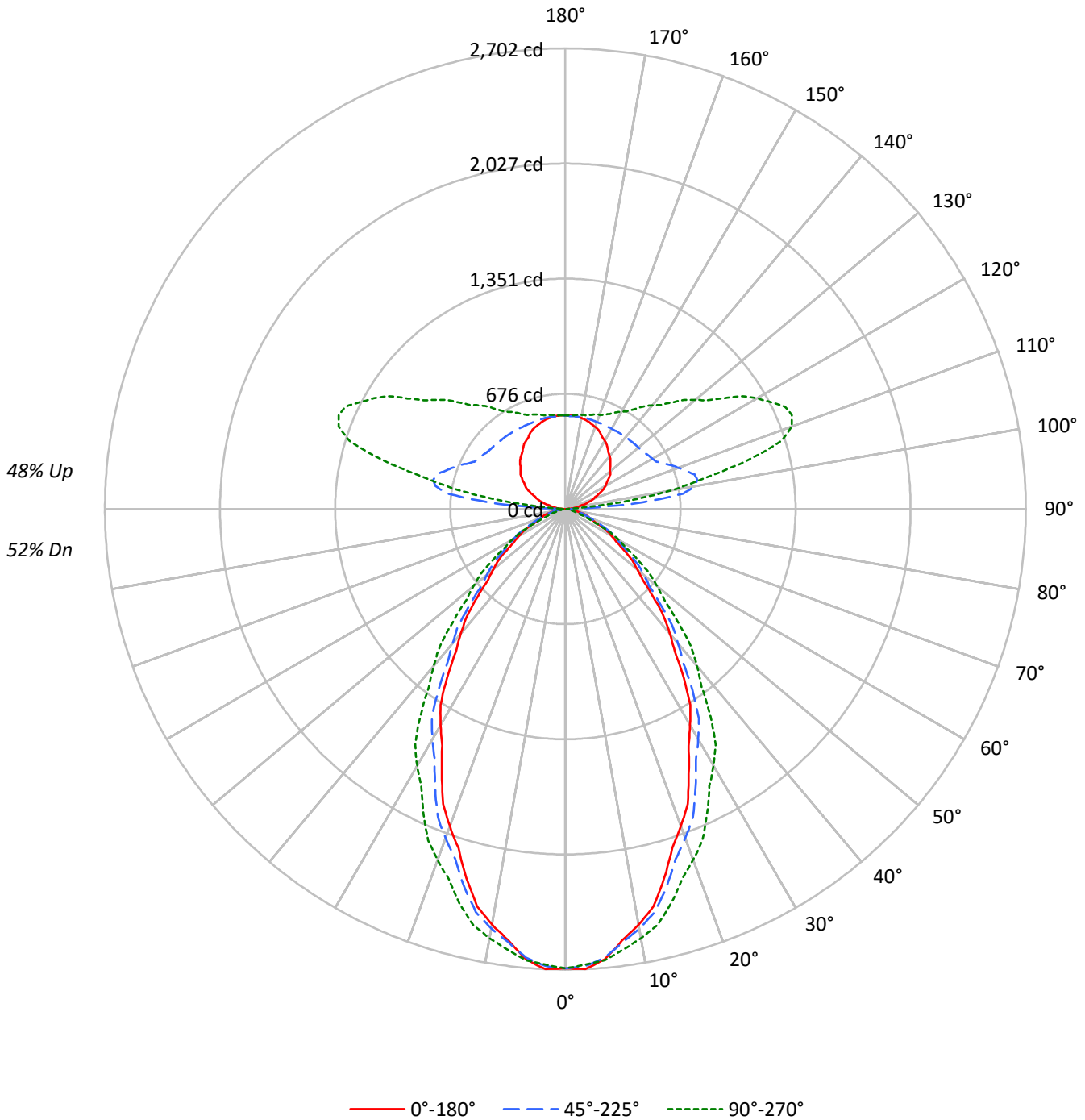
Lumens per Lamp: N/A
Luminaire Lumens: 7502.4 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

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	3.3
10°-20°	643.0	8.6
20°-30°	832.9	11.1
30°-40°	815.6	10.9
40°-50°	624.3	8.3
50°-60°	416.0	5.5
60°-70°	227.0	3.0
70°-80°	94.6	1.3
80°-90°	28.2	0.4
90°-100°	258.7	3.4
100°-110°	711.8	9.5
110°-120°	734.7	9.8
120°-130°	588.6	7.8
130°-140°	462.3	6.2
140°-150°	354.3	4.7
150°-160°	254.7	3.4
160°-170°	155.8	2.1
170°-180°	52.5	0.7
0°-30°	1723.2	23.0
0°-40°	2538.8	33.8
0°-60°	3579.1	47.7
0°-90°	3928.9	52.4
90°-120°	1705.2	22.7
90°-150°	3110.5	41.5
90°-180°	3573.0	47.6
0°-180°	7502.4	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°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

TEST NUMBER: P519225

CATALOG NUMBER: SQ4-WB-075U-100D-930-1D-UNV-STD-W-6

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°	10.6	11.3	11.1	7.8	6.8
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

TEST NUMBER: P519225

CATALOG NUMBER: SQ4-WB-075U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)