

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: P519433

Luminaire Tested: **SQ4-WB-100U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519433
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-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

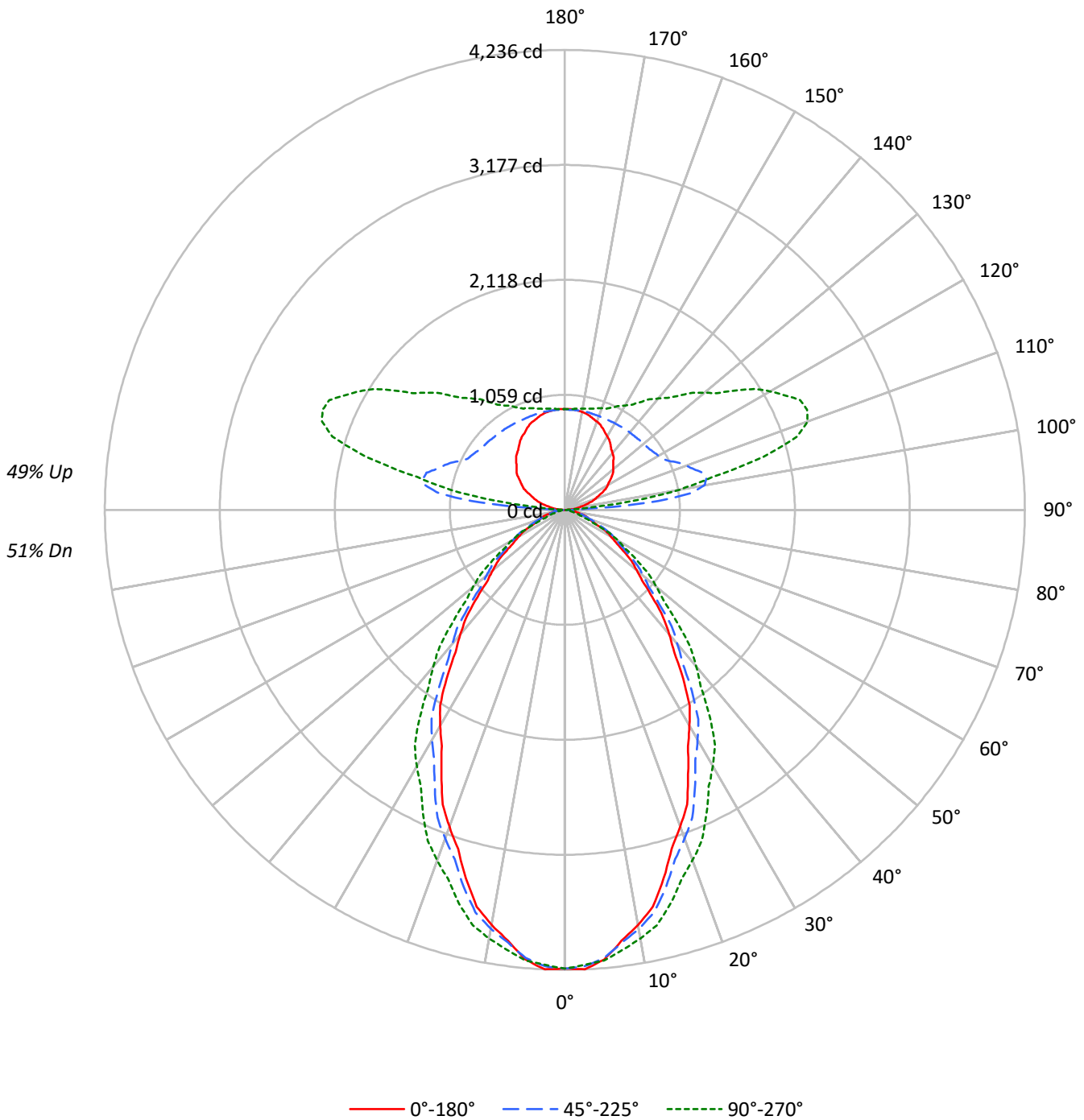
Lumens per Lamp: N/A
Luminaire Lumens: 12183.8 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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



TEST NUMBER: P519433
CATALOG NUMBER: SQ4-WB-100U-125D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519433

CATALOG NUMBER: SQ4-WB-100U-125D-835-1D-UNV-STD-W-6

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45
2	91	84	79	74	84	78	74	70	67	64	61	57	54	52	47	45	44	40
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35
4	77	68	60	55	72	63	57	52	54	50	46	47	43	40	39	37	35	31
5	72	61	53	48	66	57	50	45	49	44	40	42	39	36	36	33	31	28
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	21	19
10	50	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25991	25991	25991
5°	25667	25575	25723
10°	24250	24469	25036
15°	22385	22905	23932
20°	20329	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15286	17472
40°	11999	12952	15126
45°	9902	10757	12629
50°	8268	9013	10521
55°	7019	7735	8689
60°	5998	6706	6934
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3569	1675
80°	3613	3284	1445
85°	3275	3006	1179



TEST NUMBER: P519433

CATALOG NUMBER: SQ4-WB-100U-125D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	3.2
10°-20°	1008.1	8.3
20°-30°	1305.8	10.7
30°-40°	1278.7	10.5
40°-50°	978.8	8.0
50°-60°	652.2	5.4
60°-70°	355.9	2.9
70°-80°	148.3	1.2
80°-90°	43.9	0.4
90°-100°	434.2	3.6
100°-110°	1198.7	9.8
110°-120°	1236.3	10.1
120°-130°	993.5	8.2
130°-140°	780.8	6.4
140°-150°	598.8	4.9
150°-160°	430.4	3.5
160°-170°	263.2	2.2
170°-180°	88.7	0.7
0°-30°	2701.5	22.2
0°-40°	3980.2	32.7
0°-60°	5611.2	46.1
0°-90°	6159.3	50.6
90°-120°	2869.2	23.5
90°-150°	5242.2	43.0
90°-180°	6024.0	49.4
0°-180°	12183.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4226	4226	4226	4226	4226	
5°	4157	4115	4142	4152	4166	387
15°	3515	3503	3597	3695	3758	982
25°	2687	2694	2833	2957	3087	1236
35°	1899	1908	2036	2173	2327	1180
45°	1138	1160	1237	1330	1452	888
55°	654	682	721	749	810	593
65°	328	355	388	339	308	341
75°	165	165	150	103	70	176
85°	46	46	43	28	17	50
90°	3	6	12	13	15	7
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

TEST NUMBER: P519433

CATALOG NUMBER: SQ4-WB-100U-125D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4225.6	4225.6	4225.6	4225.6	4225.6
2.5°	4236.0	4198.2	4207.8	4207.5	4195.9
5°	4157.0	4115.3	4142.1	4151.7	4166.2
7.5°	4002.7	3971.2	4020.1	4056.4	4085.8
10°	3882.6	3855.4	3917.8	3970.6	4008.6
12.5°	3743.1	3720.3	3797.6	3868.5	3918.2
15°	3515.4	3502.7	3597.0	3694.9	3758.3
17.5°	3271.8	3265.6	3373.8	3488.0	3569.2
20°	3105.7	3103.9	3222.5	3341.4	3435.7
22.5°	2938.1	2942.0	3066.7	3190.4	3297.8
25°	2686.6	2693.9	2833.1	2956.6	3087.1
27.5°	2454.1	2457.4	2601.3	2731.7	2870.9
30°	2295.4	2304.5	2445.6	2580.5	2725.6
32.5°	2136.7	2147.2	2285.4	2424.9	2572.8
35°	1898.6	1907.7	2035.8	2172.8	2326.9
37.5°	1653.1	1665.5	1779.2	1908.8	2060.3
40°	1494.4	1512.6	1613.1	1735.1	1883.8
42.5°	1341.7	1364.1	1457.3	1573.1	1707.3
45°	1138.4	1160.2	1236.7	1330.3	1451.8
47.5°	963.4	988.4	1047.2	1127.8	1231.5
50°	864.0	887.6	941.9	1001.6	1099.5
52.5°	776.5	800.1	848.5	894.5	977.9
55°	654.5	681.7	721.3	748.6	810.3
57.5°	554.4	580.5	611.9	624.2	661.6
60°	487.6	516.6	545.1	543.7	563.7
62.5°	426.8	451.5	479.8	460.2	461.3
65°	328.2	355.4	387.5	338.6	307.8
67.5°	265.1	270.9	304.1	236.1	199.5
70°	235.5	235.5	244.7	182.9	152.0
72.5°	207.3	207.3	198.8	148.7	116.4
75°	165.0	165.0	150.2	103.1	70.5
77.5°	127.2	125.7	115.0	76.9	51.2
80°	102.0	102.0	92.7	60.7	40.8
82.5°	79.7	79.7	71.9	47.4	30.4
85°	46.4	46.4	42.6	27.6	16.7
87.5°	16.9	17.5	17.2	11.5	10.4
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



TEST NUMBER: P519433

CATALOG NUMBER: SQ4-WB-100U-125D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)