

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521959

Luminaire Tested: **SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521959
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

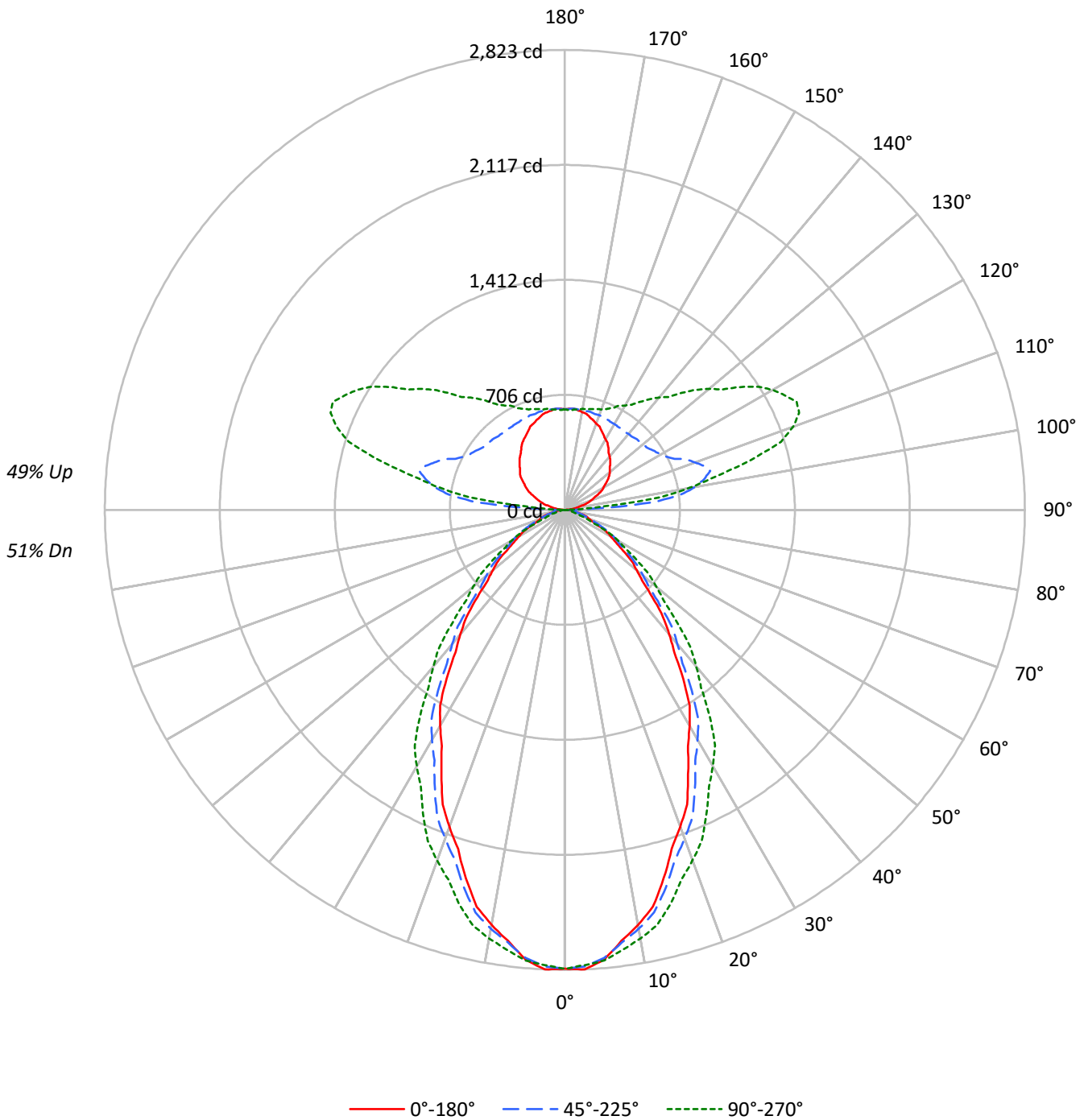
Lumens per Lamp: N/A
Luminaire Lumens: 8099.7 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.8
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	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	85	79	74	84	79	74	70	67	64	61	57	54	52	47	46	44	40
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35
4	78	68	60	55	72	63	57	52	55	50	46	47	43	40	39	37	35	31
5	72	61	53	48	66	57	50	45	49	44	41	43	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	29	26	23	21
9	54	42	35	31	50	40	34	29	35	30	27	31	27	24	27	24	21	19
10	51	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°	25986	25986	25986
5°	25662	25570	25718
10°	24244	24464	25032
15°	22381	22900	23927
20°	20324	21089	22484
25°	18229	19224	20947
30°	16300	17366	19354
35°	14253	15284	17469
40°	11997	12950	15122
45°	9901	10755	12626
50°	8266	9011	10520
55°	7018	7732	8688
60°	5997	6704	6933
65°	4774	5639	4478
70°	4235	4400	2733
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	3.2
10°-20°	671.9	8.3
20°-30°	870.4	10.7
30°-40°	852.3	10.5
40°-50°	652.4	8.1
50°-60°	434.7	5.4
60°-70°	237.2	2.9
70°-80°	98.9	1.2
80°-90°	28.0	0.3
90°-100°	318.1	3.9
100°-110°	768.8	9.5
110°-120°	820.0	10.1
120°-130°	664.1	8.2
130°-140°	514.2	6.3
140°-150°	392.3	4.8
150°-160°	283.9	3.5
160°-170°	174.9	2.2
170°-180°	59.2	0.7
0°-30°	1800.7	22.2
0°-40°	2653.0	32.8
0°-60°	3740.1	46.2
0°-90°	4104.1	50.7
90°-120°	1906.9	23.5
90°-150°	3477.5	42.9
90°-180°	3996.0	49.3
0°-180°	8099.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2771	2743	2761	2767	2777	258
15°	2343	2335	2398	2463	2505	654
25°	1791	1796	1888	1971	2058	824
35°	1266	1272	1357	1448	1551	787
45°	759	773	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	0	0	0	0	0	3
95°	31	159	545	354	248	35
105°	123	212	924	1196	1180	130
115°	225	287	742	1407	1570	222
125°	320	369	644	1119	1315	286
135°	393	439	618	883	1016	304
145°	465	500	606	750	809	291
155°	533	556	614	664	689	246
165°	590	598	622	632	640	166
175°	623	621	623	618	617	59
180°	617	617	617	617	617	

TEST NUMBER: P521959

CATALOG NUMBER: SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2816.5	2816.5	2816.5	2816.5	2816.5
2.5°	2823.4	2798.3	2804.6	2804.4	2796.7
5°	2770.8	2743.0	2760.9	2767.3	2776.9
7.5°	2667.9	2646.9	2679.5	2703.7	2723.3
10°	2587.8	2569.7	2611.3	2646.5	2671.9
12.5°	2494.9	2479.7	2531.2	2578.5	2611.6
15°	2343.2	2334.7	2397.5	2462.8	2505.0
17.5°	2180.8	2176.7	2248.7	2324.9	2379.0
20°	2070.0	2068.8	2147.9	2227.2	2290.0
22.5°	1958.3	1961.0	2044.1	2126.5	2198.1
25°	1790.7	1795.6	1888.4	1970.7	2057.7
27.5°	1635.8	1637.9	1733.9	1820.8	1913.6
30°	1530.0	1536.0	1630.1	1720.0	1816.7
32.5°	1424.2	1431.2	1523.3	1616.2	1714.9
35°	1265.5	1271.5	1357.0	1448.3	1551.0
37.5°	1101.9	1110.1	1185.9	1272.2	1373.3
40°	996.1	1008.2	1075.2	1156.5	1255.6
42.5°	894.3	909.2	971.4	1048.5	1138.0
45°	758.8	773.3	824.3	886.7	967.7
47.5°	642.1	658.8	698.0	751.7	820.8
50°	575.9	591.6	627.8	667.6	732.9
52.5°	517.6	533.3	565.5	596.2	651.8
55°	436.3	454.4	480.7	499.0	540.1
57.5°	369.5	386.9	407.8	416.1	440.9
60°	325.0	344.4	363.3	362.4	375.7
62.5°	284.5	300.9	319.8	306.8	307.5
65°	218.7	236.9	258.3	225.7	205.1
67.5°	176.7	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.1	121.9	101.3
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.1	53.1	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	10.9	10.9	9.9	5.9	4.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	86.1	202.8	98.6	66.9
95°	31.4	159.2	545.0	354.4	248.3
97.5°	55.7	176.3	717.8	691.5	593.6
100°	74.5	187.0	812.9	858.2	777.7
102.5°	92.3	196.6	875.7	996.9	949.1
105°	122.9	212.3	924.0	1195.6	1180.2
107.5°	152.9	230.9	895.6	1354.9	1390.9
110°	173.8	246.7	849.5	1423.5	1491.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.7	262.5	808.8	1440.3	1556.1
115°	224.8	287.4	742.4	1407.4	1569.7
117.5°	254.6	313.6	703.4	1331.7	1521.9
120°	274.5	329.4	678.3	1272.3	1471.7
122.5°	295.4	346.2	662.6	1211.6	1407.9
125°	320.2	368.8	644.3	1119.3	1314.8
127.5°	344.8	390.5	631.5	1041.1	1212.9
130°	359.4	404.2	627.4	986.7	1155.4
132.5°	373.0	419.8	621.1	947.4	1090.6
135°	393.4	439.4	618.2	882.6	1015.5
137.5°	412.7	459.0	609.1	838.8	938.9
140°	427.4	469.6	609.1	807.2	899.2
142.5°	442.0	484.2	603.8	779.7	857.4
145°	465.3	499.8	606.4	750.2	809.0
147.5°	487.0	520.5	604.9	716.3	764.9
150°	500.6	530.0	609.1	701.4	739.8
152.5°	515.2	543.6	608.0	685.6	719.9
155°	533.3	556.3	614.3	664.5	688.8
157.5°	554.9	574.6	613.0	656.4	670.7
160°	563.3	579.9	618.2	645.9	656.1
162.5°	576.9	591.5	616.1	642.7	648.8
165°	589.5	598.4	622.1	631.5	640.4
167.5°	604.9	610.8	620.6	630.8	631.0
170°	609.1	612.9	624.7	623.6	630.0
172.5°	616.4	619.2	621.6	624.4	620.6
175°	623.4	620.9	623.4	618.2	616.9
177.5°	622.1	622.1	620.0	617.8	612.7
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)