

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: P521962

Luminaire Tested: **SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521962
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

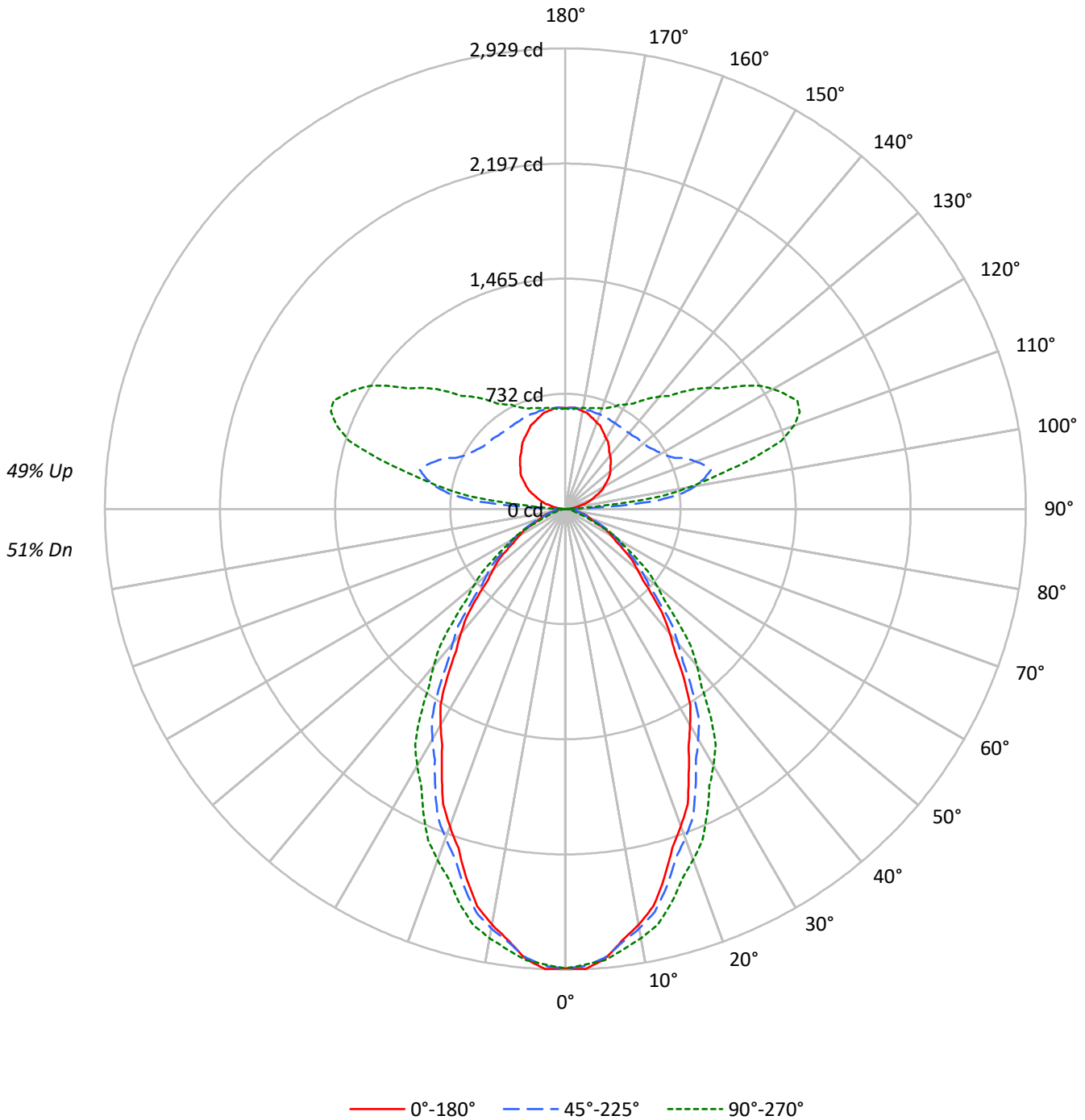
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8401.5 lumens
Efficiency: N/A
Efficacy: 95.7 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				
RC	80					70					50					30				
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°	26954	26954	26954
5°	26617	26523	26677
10°	25148	25377	25965
15°	23215	23754	24819
20°	21082	21874	23322
25°	18909	19940	21728
30°	16907	18013	20075
35°	14785	15853	18120
40°	12444	13433	15686
45°	10270	11156	13096
50°	8575	9347	10911
55°	7279	8022	9011
60°	6220	6955	7191
65°	4953	5849	4646
70°	4392	4564	2835
75°	4067	3700	1736
80°	3746	3406	1498
85°	3387	3123	1217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.2
10°-20°	697.0	8.3
20°-30°	902.8	10.7
30°-40°	884.1	10.5
40°-50°	676.7	8.1
50°-60°	450.9	5.4
60°-70°	246.1	2.9
70°-80°	102.5	1.2
80°-90°	29.0	0.3
90°-100°	330.0	3.9
100°-110°	797.5	9.5
110°-120°	850.5	10.1
120°-130°	688.9	8.2
130°-140°	533.4	6.3
140°-150°	406.9	4.8
150°-160°	294.5	3.5
160°-170°	181.4	2.2
170°-180°	61.4	0.7
0°-30°	1867.8	22.2
0°-40°	2751.8	32.8
0°-60°	3879.5	46.2
0°-90°	4257.1	50.7
90°-120°	1978.0	23.5
90°-150°	3607.1	42.9
90°-180°	4144.0	49.3
0°-180°	8401.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2922	2922	2922	2922	2922	
5°	2874	2845	2864	2870	2880	267
15°	2430	2422	2487	2554	2598	679
25°	1858	1862	1959	2044	2134	854
35°	1313	1319	1408	1502	1609	816
45°	787	802	855	920	1004	614
55°	452	471	499	518	560	410
65°	227	246	268	234	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	0	0	0	0	0	3
95°	32	165	565	368	258	37
105°	127	220	958	1240	1224	135
115°	233	298	770	1460	1628	231
125°	332	382	668	1161	1364	296
135°	408	456	641	916	1053	315
145°	483	518	629	778	839	302
155°	553	577	637	689	714	255
165°	611	621	645	655	664	173
175°	647	644	647	641	640	61
180°	640	640	640	640	640	



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CATALOG NUMBER: SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2928.6	2902.6	2909.1	2909.0	2900.9
5°	2874.0	2845.2	2863.8	2870.4	2880.4
7.5°	2767.4	2745.6	2779.4	2804.5	2824.8
10°	2684.3	2665.5	2708.7	2745.2	2771.5
12.5°	2587.9	2572.1	2625.6	2674.6	2708.9
15°	2430.5	2421.7	2486.9	2554.5	2598.4
17.5°	2262.0	2257.8	2332.5	2411.5	2467.7
20°	2147.2	2145.9	2227.9	2310.2	2375.4
22.5°	2031.3	2034.1	2120.3	2205.8	2280.0
25°	1857.5	1862.5	1958.7	2044.1	2134.4
27.5°	1696.7	1699.0	1798.5	1888.6	1984.9
30°	1587.0	1593.3	1690.8	1784.1	1884.4
32.5°	1477.3	1484.5	1580.1	1676.5	1778.8
35°	1312.7	1318.9	1407.5	1502.2	1608.8
37.5°	1142.9	1151.5	1230.1	1319.7	1424.4
40°	1033.2	1045.7	1115.3	1199.6	1302.4
42.5°	927.6	943.1	1007.6	1087.6	1180.4
45°	787.1	802.1	855.0	919.8	1003.7
47.5°	666.1	683.4	724.0	779.7	851.4
50°	597.4	613.7	651.2	692.5	760.2
52.5°	536.9	553.2	586.6	618.4	676.1
55°	452.5	471.3	498.7	517.6	560.2
57.5°	383.3	401.3	423.0	431.6	457.4
60°	337.1	357.2	376.9	375.9	389.7
62.5°	295.1	312.1	331.8	318.2	318.9
65°	226.9	245.7	267.9	234.1	212.8
67.5°	183.3	187.3	210.2	163.3	137.9
70°	162.8	162.8	169.2	126.4	105.1
72.5°	143.3	143.3	137.4	102.8	80.5
75°	114.1	114.1	103.8	71.3	48.7
77.5°	87.9	86.9	79.5	53.2	35.4
80°	70.5	70.5	64.1	42.0	28.2
82.5°	55.1	55.1	49.7	32.8	21.0
85°	32.0	32.0	29.5	19.1	11.5
87.5°	11.3	11.3	10.3	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.8	89.3	210.4	102.3	69.4
95°	32.5	165.1	565.3	367.6	257.6
97.5°	57.8	182.9	744.6	717.3	615.8
100°	77.3	193.9	843.3	890.2	806.6
102.5°	95.7	203.9	908.3	1034.1	984.5
105°	127.4	220.2	958.5	1240.1	1224.2
107.5°	158.6	239.5	928.9	1405.4	1442.7
110°	180.3	255.9	881.2	1476.6	1546.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	202.0	272.3	838.9	1494.0	1614.1
115°	233.2	298.1	770.0	1459.9	1628.2
117.5°	264.1	325.3	729.6	1381.3	1578.6
120°	284.7	341.7	703.6	1319.7	1526.5
122.5°	306.4	359.1	687.3	1256.8	1460.4
125°	332.1	382.5	668.4	1161.0	1363.8
127.5°	357.6	405.1	655.1	1079.9	1258.1
130°	372.8	419.2	650.7	1023.5	1198.4
132.5°	386.9	435.4	644.2	982.7	1131.2
135°	408.1	455.8	641.2	915.5	1053.4
137.5°	428.1	476.1	631.8	870.0	973.9
140°	443.3	487.1	631.8	837.3	932.7
142.5°	458.5	502.2	626.3	808.7	889.3
145°	482.6	518.4	629.0	778.2	839.2
147.5°	505.1	539.9	627.4	743.0	793.4
150°	519.2	549.7	631.8	727.6	767.3
152.5°	534.4	563.8	630.7	711.2	746.7
155°	553.1	577.0	637.2	689.3	714.5
157.5°	575.6	596.0	635.8	680.9	695.7
160°	584.3	601.5	641.2	670.0	680.6
162.5°	598.4	613.5	639.1	666.6	673.0
165°	611.4	620.7	645.3	655.0	664.3
167.5°	627.4	633.5	643.7	654.3	654.5
170°	631.8	635.7	648.0	646.8	653.5
172.5°	639.4	642.3	644.8	647.7	643.7
175°	646.7	644.0	646.7	641.2	639.9
177.5°	645.3	645.3	643.1	640.9	635.6
180°	639.9	639.9	639.9	639.9	639.9

(END OF REPORT)