

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: P521961

Luminaire Tested: **SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521961
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

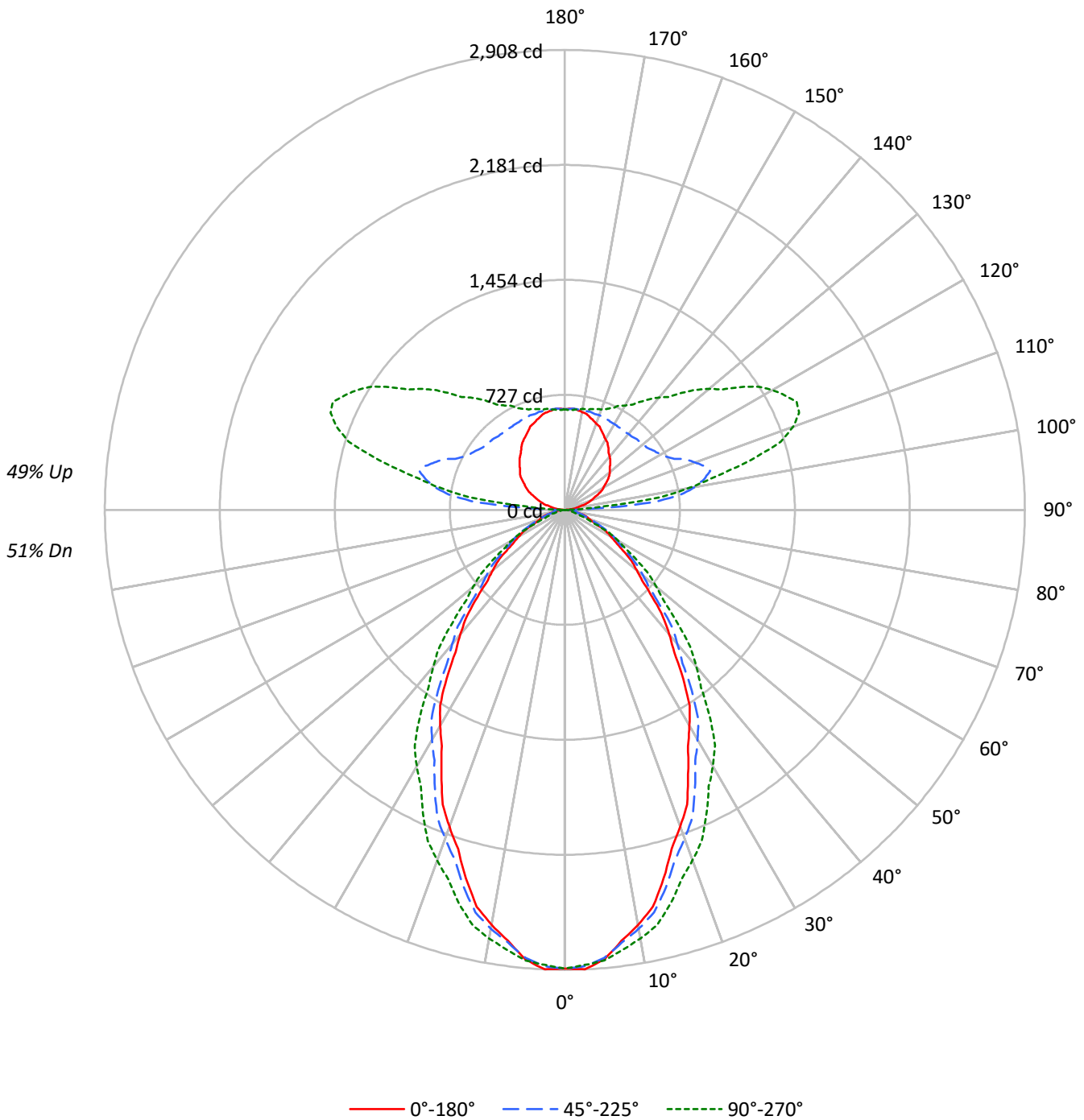
Lumens per Lamp: N/A
Luminaire Lumens: 8342.6 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.9
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	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°	26765	26765	26765
5°	26431	26337	26490
10°	24972	25199	25782
15°	23052	23587	24645
20°	20934	21721	23158
25°	18776	19800	21575
30°	16789	17887	19935
35°	14681	15742	17993
40°	12357	13337	15576
45°	10198	11078	13005
50°	8514	9281	10834
55°	7227	7965	8948
60°	6178	6905	7141
65°	4919	5807	4613
70°	4362	4532	2816
75°	4039	3675	1725
80°	3719	3379	1488
85°	3366	3102	1217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	3.2
10°-20°	692.1	8.3
20°-30°	896.5	10.7
30°-40°	877.9	10.5
40°-50°	672.0	8.1
50°-60°	447.8	5.4
60°-70°	244.3	2.9
70°-80°	101.8	1.2
80°-90°	28.8	0.3
90°-100°	327.6	3.9
100°-110°	791.9	9.5
110°-120°	844.6	10.1
120°-130°	684.0	8.2
130°-140°	529.6	6.3
140°-150°	404.0	4.8
150°-160°	292.5	3.5
160°-170°	180.1	2.2
170°-180°	61.0	0.7
0°-30°	1854.7	22.2
0°-40°	2732.5	32.8
0°-60°	3852.3	46.2
0°-90°	4227.2	50.7
90°-120°	1964.1	23.5
90°-150°	3581.8	42.9
90°-180°	4115.0	49.3
0°-180°	8342.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2901	2901	2901	2901	2901	
5°	2854	2825	2844	2850	2860	265
15°	2413	2405	2469	2537	2580	674
25°	1844	1849	1945	2030	2119	848
35°	1304	1310	1398	1492	1598	810
45°	782	796	849	913	997	610
55°	449	468	495	514	556	407
65°	225	244	266	232	211	234
75°	113	113	103	71	48	121
85°	32	32	29	19	12	35
90°	0	0	0	0	0	3
95°	32	164	561	365	256	36
105°	126	219	952	1231	1216	134
115°	232	296	765	1450	1617	229
125°	330	380	664	1153	1354	294
135°	405	453	637	909	1046	313
145°	479	515	625	773	833	300
155°	549	573	633	684	709	254
165°	607	616	641	650	660	171
175°	642	640	642	637	635	61
180°	635	635	635	635	635	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2901.0	2901.0	2901.0	2901.0	2901.0
2.5°	2908.1	2882.2	2888.7	2888.6	2880.6
5°	2853.9	2825.2	2843.7	2850.3	2860.2
7.5°	2748.0	2726.3	2759.9	2784.8	2805.0
10°	2665.5	2646.8	2689.7	2725.9	2752.0
12.5°	2569.7	2554.1	2607.2	2655.8	2689.9
15°	2413.4	2404.7	2469.4	2536.6	2580.2
17.5°	2246.2	2241.9	2316.2	2394.6	2450.3
20°	2132.1	2130.9	2212.3	2294.0	2358.7
22.5°	2017.0	2019.8	2105.4	2190.3	2264.0
25°	1844.4	1849.4	1945.0	2029.8	2119.4
27.5°	1684.8	1687.1	1785.9	1875.4	1971.0
30°	1575.9	1582.1	1679.0	1771.6	1871.2
32.5°	1466.9	1474.1	1569.0	1664.7	1766.3
35°	1303.5	1309.7	1397.7	1491.7	1597.5
37.5°	1134.9	1143.4	1221.5	1310.4	1414.5
40°	1026.0	1038.4	1107.4	1191.2	1293.3
42.5°	921.1	936.5	1000.5	1080.0	1172.1
45°	781.6	796.5	849.0	913.3	996.7
47.5°	661.4	678.6	718.9	774.3	845.5
50°	593.2	609.4	646.6	687.6	754.8
52.5°	533.1	549.3	582.5	614.1	671.3
55°	449.3	468.0	495.2	513.9	556.3
57.5°	380.6	398.5	420.1	428.5	454.2
60°	334.8	354.7	374.2	373.3	387.0
62.5°	293.0	310.0	329.4	316.0	316.7
65°	225.3	244.0	266.0	232.5	211.3
67.5°	182.0	186.0	208.8	162.1	137.0
70°	161.7	161.7	168.0	125.5	104.4
72.5°	142.3	142.3	136.5	102.1	79.9
75°	113.3	113.3	103.1	70.8	48.4
77.5°	87.3	86.3	78.9	52.8	35.1
80°	70.0	70.0	63.6	41.7	28.0
82.5°	54.7	54.7	49.4	32.6	20.9
85°	31.8	31.8	29.3	18.9	11.5
87.5°	11.2	11.2	10.2	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.8	88.7	208.9	101.6	68.9
95°	32.3	163.9	561.4	365.0	255.8
97.5°	57.3	181.6	739.3	712.3	611.4
100°	76.7	192.6	837.3	883.9	801.0
102.5°	95.0	202.4	902.0	1026.8	977.6
105°	126.5	218.7	951.8	1231.4	1215.6
107.5°	157.5	237.8	922.4	1395.5	1432.6
110°	179.0	254.1	875.0	1466.2	1536.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.6	270.3	833.0	1483.5	1602.8
115°	231.5	296.0	764.6	1449.6	1616.8
117.5°	262.2	323.1	724.5	1371.6	1567.5
120°	282.7	339.3	698.7	1310.5	1515.8
122.5°	304.2	356.6	682.5	1247.9	1450.1
125°	329.8	379.8	663.7	1152.9	1354.3
127.5°	355.1	402.2	650.5	1072.4	1249.3
130°	370.2	416.3	646.2	1016.3	1190.0
132.5°	384.2	432.4	639.7	975.8	1123.3
135°	405.2	452.6	636.8	909.1	1046.0
137.5°	425.1	472.8	627.3	863.9	967.1
140°	440.2	483.6	627.3	831.4	926.2
142.5°	455.3	498.7	621.9	803.1	883.1
145°	479.2	514.8	624.6	772.7	833.3
147.5°	501.6	536.1	623.0	737.8	787.8
150°	515.6	545.9	627.3	722.5	761.9
152.5°	530.7	559.9	626.2	706.2	741.5
155°	549.2	572.9	632.7	684.4	709.4
157.5°	571.6	591.9	631.4	676.1	690.9
160°	580.2	597.3	636.8	665.3	675.8
162.5°	594.2	609.2	634.6	661.9	668.3
165°	607.1	616.3	640.8	650.4	659.6
167.5°	623.0	629.1	639.2	649.7	649.9
170°	627.3	631.3	643.5	642.3	648.9
172.5°	634.9	637.8	640.3	643.1	639.2
175°	642.1	639.5	642.1	636.7	635.4
177.5°	640.8	640.8	638.6	636.4	631.1
180°	635.4	635.4	635.4	635.4	635.4

(END OF REPORT)