

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: P521858

Luminaire Tested: **SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521858
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-075U-125D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

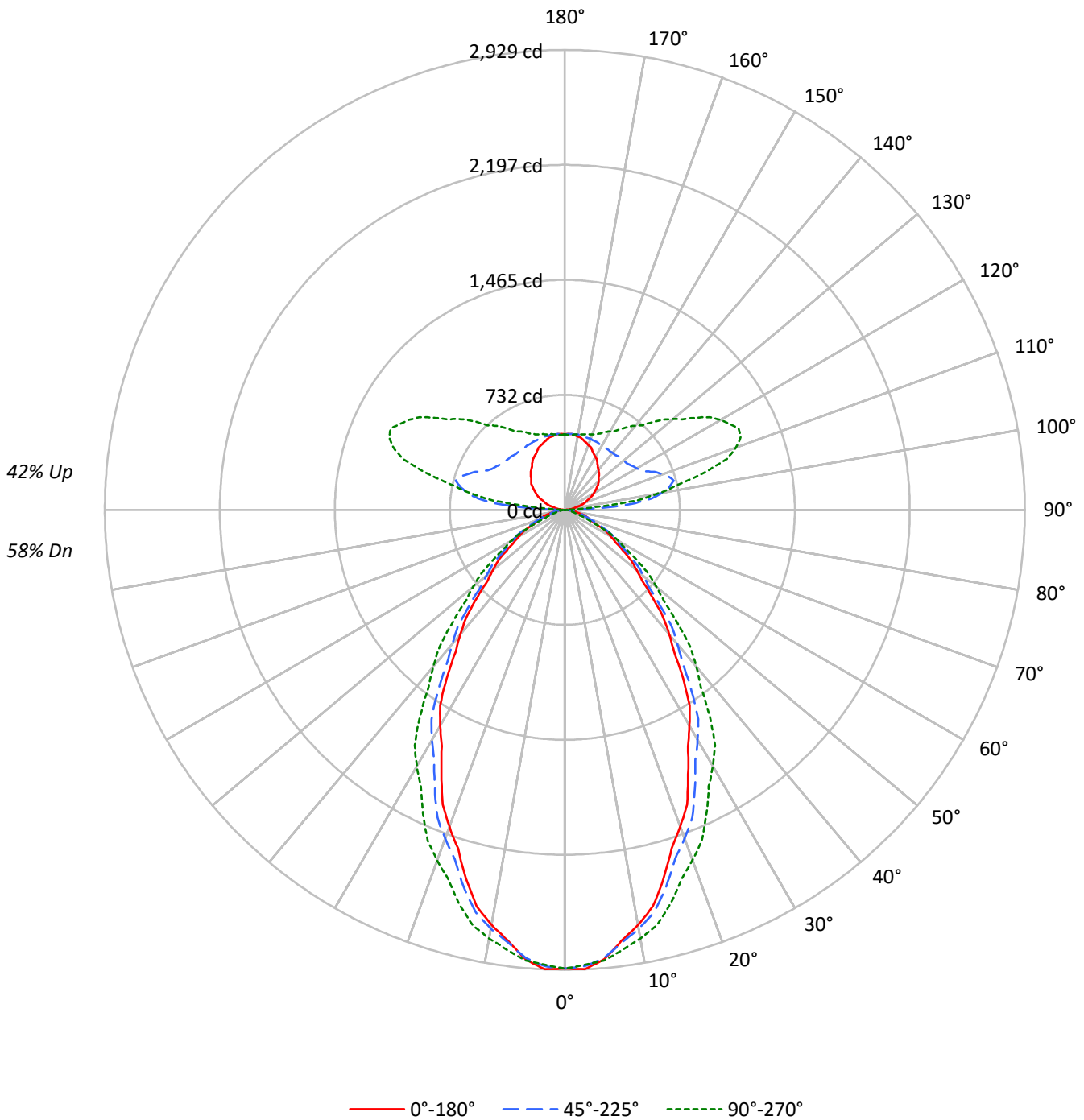
Lumens per Lamp: N/A
Luminaire Lumens: 7368.5 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.1
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: P521858

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521858

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (4500K)

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	50	30	10	50	30	10	0																			
RCR																																														
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58	58	58	45	45	45	32	32	32	20																			
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51	51	51	39	39	39	29	29	29	18																			
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45	45	45	36	36	36	27	27	27	17																			
3	86	77	70	65	80	72	67	62	64	59	56	56	52	49	48	46	44	40	40	40	32	32	32	24	24	24	15																			
4	79	69	62	57	74	65	59	54	58	53	49	50	47	44	44	41	39	36	36	36	29	29	29	22	22	22	14																			
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32	32	32	26	26	26	20	20	20	13																			
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29	29	29	23	23	23	18	18	18	12																			
7	63	52	44	39	59	49	42	38	44	38	35	39	35	32	34	31	29	26	26	26	21	21	21	16	16	16	11																			
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24	24	24	19	19	19	14	14	14	10																			
9	55	44	37	32	52	42	35	31	37	32	28	34	29	26	30	26	24	22	22	22	17	17	17	13	13	13	9																			
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20	20	20	15	15	15	11	11	11	8																			

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



TEST NUMBER: P521858

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.6
10°-20°	697.0	9.5
20°-30°	902.8	12.3
30°-40°	884.1	12.0
40°-50°	676.7	9.2
50°-60°	450.9	6.1
60°-70°	246.1	3.3
70°-80°	102.5	1.4
80°-90°	29.0	0.4
90°-100°	247.7	3.4
100°-110°	598.7	8.1
110°-120°	638.5	8.7
120°-130°	517.2	7.0
130°-140°	400.4	5.4
140°-150°	305.5	4.1
150°-160°	221.1	3.0
160°-170°	136.2	1.8
170°-180°	46.1	0.6
0°-30°	1867.8	25.3
0°-40°	2751.8	37.3
0°-60°	3879.5	52.6
0°-90°	4257.1	57.8
90°-120°	1485.0	20.2
90°-150°	2708.0	36.8
90°-180°	3111.0	42.2
0°-180°	7368.5	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°	24	124	424	276	193	27
105°	96	165	720	931	919	101
115°	175	224	578	1096	1222	173
125°	249	287	502	872	1024	222
135°	306	342	481	687	791	237
145°	362	389	472	584	630	226
155°	415	433	478	518	536	192
165°	459	466	484	492	499	130
175°	486	484	486	481	480	46
180°	480	480	480	480	480	

TEST NUMBER: P521858

CATALOG NUMBER: SQ4-WB-075U-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°	8.1	67.1	158.0	76.8	52.1
95°	24.4	123.9	424.4	276.0	193.4
97.5°	43.4	137.3	559.0	538.5	462.3
100°	58.0	145.6	633.1	668.3	605.6
102.5°	71.9	153.1	681.9	776.3	739.1
105°	95.7	165.3	719.6	931.0	919.1
107.5°	119.1	179.8	697.4	1055.1	1083.1
110°	135.4	192.1	661.6	1108.5	1161.3

TEST NUMBER: P521858

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	151.6	204.4	629.8	1121.6	1211.8
115°	175.1	223.8	578.1	1096.0	1222.4
117.5°	198.3	244.2	547.8	1037.0	1185.1
120°	213.7	256.5	528.2	990.8	1146.0
122.5°	230.0	269.6	516.0	943.5	1096.4
125°	249.4	287.2	501.8	871.6	1023.9
127.5°	268.5	304.1	491.8	810.8	944.5
130°	279.9	314.7	488.5	768.4	899.7
132.5°	290.5	326.9	483.7	737.8	849.2
135°	306.4	342.2	481.4	687.3	790.8
137.5°	321.4	357.4	474.3	653.2	731.2
140°	332.8	365.7	474.3	628.6	700.2
142.5°	344.2	377.1	470.2	607.2	667.7
145°	362.3	389.2	472.3	584.2	630.0
147.5°	379.2	405.3	471.0	557.8	595.6
150°	389.8	412.7	474.3	546.2	576.1
152.5°	401.2	423.3	473.5	533.9	560.6
155°	415.3	433.2	478.4	517.5	536.4
157.5°	432.2	447.5	477.3	511.2	522.3
160°	438.7	451.6	481.4	503.0	510.9
162.5°	449.3	460.6	479.8	500.5	505.2
165°	459.0	466.0	484.5	491.7	498.7
167.5°	471.0	475.6	483.2	491.2	491.4
170°	474.3	477.3	486.5	485.6	490.6
172.5°	480.0	482.2	484.1	486.2	483.2
175°	485.5	483.5	485.5	481.4	480.4
177.5°	484.5	484.5	482.8	481.1	477.1
180°	480.4	480.4	480.4	480.4	480.4

(END OF REPORT)