

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: P520008

Luminaire Tested: **SQ4-F-075U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520008
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

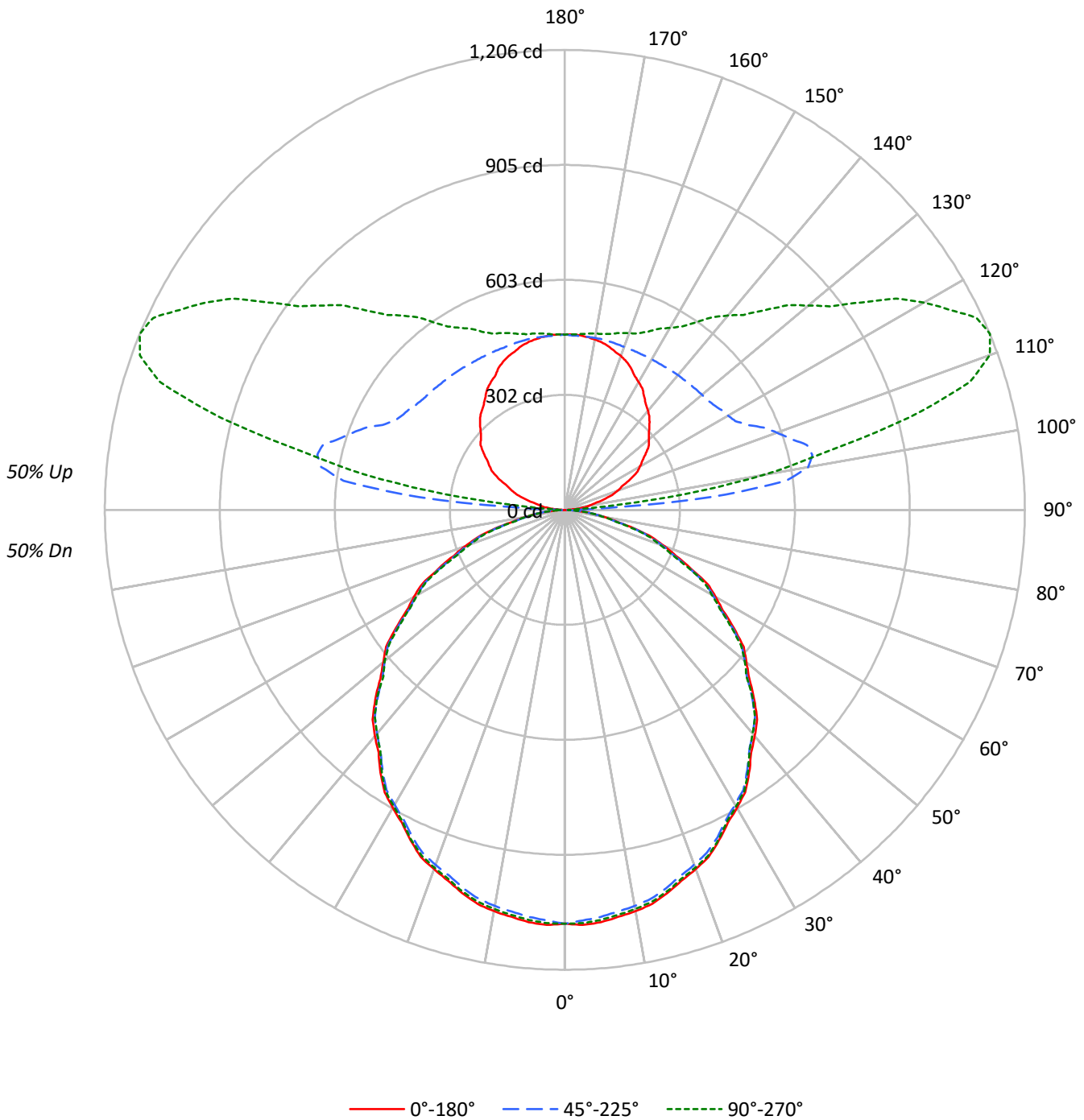
Lumens per Lamp: N/A
Luminaire Lumens: 5958.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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: P520008
CATALOG NUMBER: SQ4-F-075U-075D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P520008

CATALOG NUMBER: SQ4-F-075U-075D-835-1D-UNV-STD-W-4

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	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9936	9813	9897
20°	9846	9729	9807
25°	9737	9637	9708
30°	9614	9508	9562
35°	9488	9388	9432
40°	9328	9233	9221
45°	9167	9053	9077
50°	8912	8842	8842
55°	8705	8594	8516
60°	8425	8280	8208
65°	7971	7820	7713
70°	7486	7300	7113
75°	6734	6491	6349
80°	5388	5281	5228
85°	3229	3642	3747



TEST NUMBER: P520008

CATALOG NUMBER: SQ4-F-075U-075D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	1.7
10°-20°	291.7	4.9
20°-30°	438.2	7.4
30°-40°	522.9	8.8
40°-50°	536.2	9.0
50°-60°	477.8	8.0
60°-70°	356.3	6.0
70°-80°	193.2	3.2
80°-90°	45.5	0.8
90°-100°	216.8	3.6
100°-110°	596.3	10.0
110°-120°	615.5	10.3
120°-130°	493.1	8.3
130°-140°	387.3	6.5
140°-150°	296.8	5.0
150°-160°	213.4	3.6
160°-170°	130.5	2.2
170°-180°	44.0	0.7
0°-30°	832.3	14.0
0°-40°	1355.2	22.7
0°-60°	2369.2	39.8
0°-90°	2964.2	49.8
90°-120°	1428.6	24.0
90°-150°	2605.9	43.7
90°-180°	2994.0	50.3
0°-180°	5958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1085	1084	1072	1080	1080	103
15°	1040	1038	1027	1035	1036	293
25°	956	956	947	952	954	441
35°	842	840	834	834	837	526
45°	703	700	694	694	696	541
55°	541	540	534	529	529	483
65°	365	365	358	354	353	363
75°	189	185	182	179	178	198
85°	30	32	34	34	35	42
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

TEST NUMBER: P520008

CATALOG NUMBER: SQ4-F-075U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1089.4	1087.1	1077.5	1085.4	1084.6
5°	1085.4	1083.5	1071.6	1080.5	1079.5
7.5°	1076.6	1074.5	1062.8	1071.6	1071.4
10°	1068.7	1065.8	1054.9	1063.8	1062.8
12.5°	1058.5	1055.6	1044.7	1053.5	1052.6
15°	1040.2	1038.2	1027.4	1035.2	1036.2
17.5°	1019.3	1015.6	1005.9	1013.6	1014.6
20°	1002.8	999.9	990.9	997.8	998.8
22.5°	985.4	982.6	973.6	980.5	981.5
25°	956.5	955.5	946.7	951.6	953.6
27.5°	925.2	922.6	915.4	919.1	921.1
30°	902.4	900.4	892.5	895.5	897.5
32.5°	878.8	877.6	870.5	872.0	874.6
35°	842.4	840.4	833.5	833.6	837.4
37.5°	802.0	799.8	794.1	793.2	794.7
40°	774.5	771.6	766.6	765.6	765.6
42.5°	746.1	744.0	737.5	735.8	738.0
45°	702.6	699.8	693.8	693.8	695.7
47.5°	655.6	654.4	647.5	644.4	645.2
50°	620.9	622.9	616.0	612.2	616.0
52.5°	591.0	589.8	583.7	579.8	581.4
55°	541.2	540.2	534.3	529.4	529.4
57.5°	491.2	488.8	482.6	478.9	481.8
60°	456.6	455.6	448.7	441.9	444.8
62.5°	422.0	420.2	413.3	408.8	410.9
65°	365.1	365.1	358.2	354.3	353.3
67.5°	315.3	310.7	306.8	302.1	300.7
70°	277.5	273.7	270.6	266.6	263.7
72.5°	240.5	238.2	233.6	229.7	229.1
75°	188.9	185.1	182.1	179.1	178.1
77.5°	134.4	133.6	130.9	129.3	129.9
80°	101.4	101.4	99.4	99.4	98.4
82.5°	71.4	72.2	71.8	70.3	70.1
85°	30.5	32.5	34.4	34.4	35.4
87.5°	5.7	10.1	10.0	10.4	10.4
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	100.0	38.3	31.5
95°	32.3	118.4	383.3	163.9	104.7
97.5°	52.6	131.2	584.9	450.6	318.0
100°	67.5	139.2	648.3	654.4	533.9
102.5°	81.6	148.7	664.7	811.7	701.2
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.5	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.6	1116.2	1185.1



TEST NUMBER: P520008

CATALOG NUMBER: SQ4-F-075U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.2	209.5	563.4	1101.4	1206.2
115°	188.7	229.9	527.0	1049.4	1191.0
117.5°	212.9	250.8	503.9	976.6	1136.6
120°	227.8	264.2	493.8	921.9	1087.3
122.5°	241.1	277.5	486.7	873.9	1030.9
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.4	754.4	876.1
130°	287.5	322.9	469.3	722.1	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.2	740.1
137.5°	328.4	360.2	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.9	664.9
142.5°	348.7	376.0	459.9	581.9	636.8
145°	362.8	387.6	457.6	557.3	600.4
147.5°	377.8	399.3	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.8	513.4	535.6
155°	410.6	424.0	454.6	500.9	515.3
157.5°	421.4	432.3	454.6	490.6	500.6
160°	429.2	437.8	454.6	485.1	492.8
162.5°	435.5	442.6	455.4	480.5	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.7	454.1	457.6	470.9	471.6
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)