

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: P521468

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

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521468  
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-F-075U-075D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

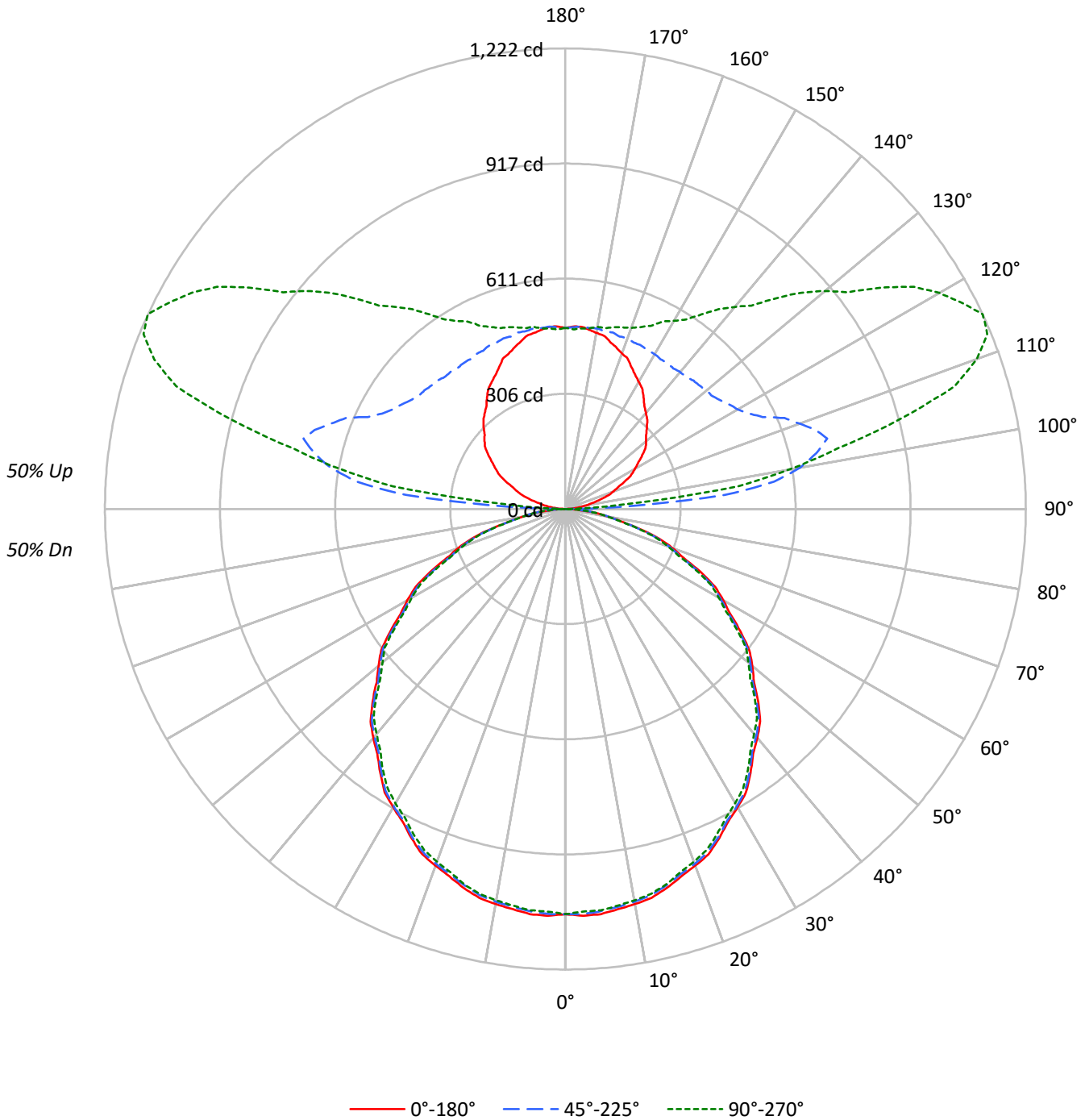
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6176.3 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 55.2  
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	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	20	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9916	9916	9916
5°	9992	9925	9898
10°	9974	9917	9878
15°	9945	9877	9857
20°	9893	9843	9783
25°	9823	9781	9697
30°	9737	9704	9607
35°	9641	9595	9515
40°	9550	9488	9389
45°	9441	9362	9269
50°	9291	9218	9102
55°	9135	9021	8906
60°	8920	8770	8676
65°	8643	8420	8311
70°	8128	7907	7826
75°	7258	7112	7001
80°	6004	6057	6004
85°	4308	4848	5060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	1.6
10°-20°	291.3	4.7
20°-30°	440.6	7.1
30°-40°	530.5	8.6
40°-50°	551.0	8.9
50°-60°	500.0	8.1
60°-70°	381.4	6.2
70°-80°	212.5	3.4
80°-90°	55.8	0.9
90°-100°	247.7	4.0
100°-110°	598.7	9.7
110°-120°	638.5	10.3
120°-130°	517.2	8.4
130°-140°	400.4	6.5
140°-150°	305.5	4.9
150°-160°	221.1	3.6
160°-170°	136.2	2.2
170°-180°	46.1	0.7
0°-30°	833.7	13.5
0°-40°	1364.2	22.1
0°-60°	2415.2	39.1
0°-90°	3064.8	49.6
90°-120°	1485.0	24.0
90°-150°	2708.0	43.8
90°-180°	3111.0	50.4
0°-180°	6176.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1079	1069	1072	1070	1069	102
15°	1041	1029	1034	1032	1032	294
25°	965	955	961	952	953	444
35°	856	850	852	843	845	536
45°	724	717	718	708	710	557
55°	568	565	561	554	554	507
65°	396	392	386	380	381	390
75°	204	203	200	197	196	216
85°	41	46	46	48	48	50
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1080.5	1072.5	1075.6	1073.1	1069.1
5°	1078.9	1068.9	1071.7	1069.7	1068.7
7.5°	1071.1	1061.2	1065.0	1062.0	1061.8
10°	1064.6	1054.7	1058.5	1055.4	1054.4
12.5°	1056.5	1045.7	1049.5	1046.5	1046.3
15°	1041.2	1029.3	1034.1	1032.0	1032.0
17.5°	1022.3	1010.5	1016.4	1012.7	1011.1
20°	1007.6	996.7	1002.5	996.4	996.4
22.5°	992.1	981.2	986.2	979.3	979.3
25°	964.9	954.9	960.8	951.7	952.6
27.5°	935.1	926.2	931.3	922.5	922.9
30°	914.0	905.0	910.9	899.8	901.8
32.5°	892.0	883.8	887.3	877.7	878.1
35°	856.0	850.0	851.9	842.8	844.8
37.5°	818.9	811.9	813.8	804.5	806.5
40°	792.9	785.9	787.8	777.6	779.6
42.5°	765.2	759.0	760.1	750.0	752.8
45°	723.6	716.7	717.5	708.4	710.4
47.5°	679.1	673.5	672.3	664.0	665.8
50°	647.3	643.3	642.2	633.1	634.1
52.5°	615.6	612.4	609.7	601.4	604.0
55°	567.9	564.9	560.8	553.7	553.7
57.5°	518.5	515.5	510.3	503.2	505.2
60°	483.4	480.5	475.3	468.2	470.2
62.5°	448.4	445.5	439.5	433.2	434.4
65°	395.9	391.9	385.7	379.7	380.7
67.5°	339.5	335.8	330.6	324.7	325.9
70°	301.3	298.3	293.1	288.1	290.1
72.5°	261.4	258.4	254.0	251.4	251.0
75°	203.6	202.6	199.5	197.4	196.4
77.5°	148.8	150.2	146.6	145.7	145.5
80°	113.0	116.0	114.0	114.0	113.0
82.5°	81.2	85.8	84.7	84.7	84.5
85°	40.7	45.7	45.8	47.8	47.8
87.5°	11.4	16.2	18.7	19.5	19.5
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



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**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)