

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: P519988

Luminaire Tested: **SQ4-F-075U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519988
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

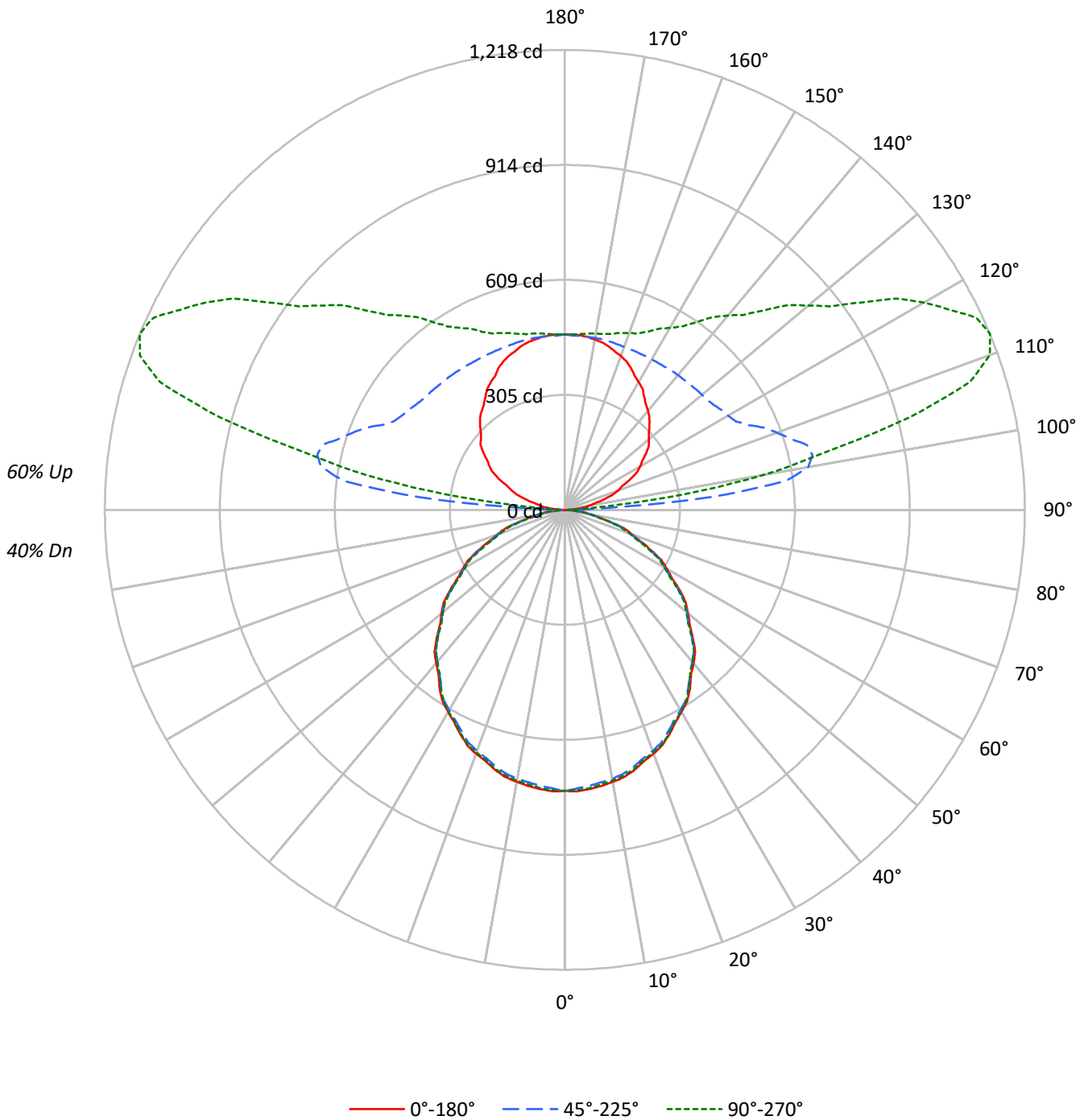
Lumens per Lamp: N/A
Luminaire Lumens: 5055.7 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	74	68	79	73	68	63	60	56	53	48	45	43	37	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	56	50	44	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	19	16	14
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6864	6864	6864
5°	6881	6798	6853
10°	6858	6774	6821
15°	6811	6725	6784
20°	6747	6670	6718
25°	6671	6590	6652
30°	6579	6525	6568
35°	6506	6428	6462
40°	6382	6322	6334
45°	6250	6199	6199
50°	6119	6061	6033
55°	5976	5895	5863
60°	5752	5661	5624
65°	5480	5370	5307
70°	5104	4999	4888
75°	4581	4438	4331
80°	3703	3650	3549
85°	2212	2530	2636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.4
10°-20°	199.9	4.0
20°-30°	300.2	5.9
30°-40°	358.4	7.1
40°-50°	367.3	7.3
50°-60°	327.5	6.5
60°-70°	243.9	4.8
70°-80°	132.4	2.6
80°-90°	31.9	0.6
90°-100°	218.9	4.3
100°-110°	602.3	11.9
110°-120°	621.7	12.3
120°-130°	498.1	9.9
130°-140°	391.2	7.7
140°-150°	299.8	5.9
150°-160°	215.6	4.3
160°-170°	131.8	2.6
170°-180°	44.4	0.9
0°-30°	570.3	11.3
0°-40°	928.8	18.4
0°-60°	1623.6	32.1
0°-90°	2031.8	40.2
90°-120°	1443.0	28.5
90°-150°	2632.1	52.1
90°-180°	3024.0	59.8
0°-180°	5055.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	743	742	734	741	740	71
15°	713	711	704	710	710	201
25°	655	653	647	651	653	302
35°	578	576	571	571	574	360
45°	479	480	475	474	475	370
55°	372	372	366	364	364	331
65°	251	250	246	243	243	249
75°	128	128	124	122	122	136
85°	21	23	24	25	25	29
90°	1	4	7	9	9	3
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	114
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

TEST NUMBER: P519988

CATALOG NUMBER: SQ4-F-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.0	744.0	744.0	744.0	744.0
2.5°	746.3	744.9	738.5	744.0	743.2
5°	743.0	742.0	734.0	741.0	740.0
7.5°	737.7	735.7	727.9	734.6	733.6
10°	732.0	730.1	723.1	729.0	728.1
12.5°	724.9	723.7	715.9	721.9	721.7
15°	713.1	711.1	704.1	710.2	710.2
17.5°	697.5	696.5	689.6	695.4	694.6
20°	687.2	685.3	679.3	684.2	684.2
22.5°	674.5	673.3	667.3	671.5	672.3
25°	655.3	653.4	647.3	651.4	653.4
27.5°	634.2	632.7	627.6	630.3	631.7
30°	617.5	617.5	612.5	613.6	616.5
32.5°	602.4	602.4	596.6	597.6	599.0
35°	577.6	575.8	570.7	570.7	573.7
37.5°	548.9	548.1	544.8	544.2	545.0
40°	529.9	528.9	524.9	525.9	525.9
42.5°	510.8	509.8	505.7	504.4	505.9
45°	479.0	480.0	475.1	474.1	475.1
47.5°	447.8	447.8	443.8	441.1	442.6
50°	426.3	426.3	422.3	420.3	420.3
52.5°	404.0	404.8	399.9	397.2	398.0
55°	371.5	371.5	366.5	363.6	364.5
57.5°	335.7	335.7	330.6	327.8	329.4
60°	311.7	311.7	306.8	303.8	304.8
62.5°	287.8	287.8	282.9	279.8	280.0
65°	251.0	250.0	246.0	243.1	243.1
67.5°	215.6	213.0	209.9	206.0	206.0
70°	189.2	188.2	185.3	181.2	181.2
72.5°	165.4	163.6	160.5	157.4	157.4
75°	128.5	127.5	124.5	122.5	121.5
77.5°	92.0	91.2	91.0	88.3	89.0
80°	69.7	69.7	68.7	66.8	66.8
82.5°	49.8	50.6	48.8	48.4	47.6
85°	20.9	22.9	23.9	24.9	24.9
87.5°	4.1	7.1	7.0	8.2	8.2
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.7	31.8
95°	32.6	119.5	387.1	165.5	105.6
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.2	140.6	654.8	660.9	539.2
102.5°	82.4	150.1	671.4	820.0	708.4
105°	107.7	165.6	663.7	1010.8	943.2
107.5°	131.8	184.7	625.9	1104.2	1124.2
110°	149.2	197.4	597.5	1127.5	1197.0

TEST NUMBER: P519988

CATALOG NUMBER: SQ4-F-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.2	266.8	498.7	931.2	1098.2
122.5°	243.6	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	816.9	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.5
132.5°	301.5	337.2	471.6	700.7	802.0
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.7	363.9	467.0	628.3	700.0
140°	342.7	372.7	466.2	606.8	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.3	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.1
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.6	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.2	491.4
165°	448.4	454.1	461.2	480.1	482.9
167.5°	454.3	458.7	462.2	475.7	476.4
170°	458.2	461.2	462.2	474.1	474.1
172.5°	461.4	462.7	462.2	471.6	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)