

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: P519805

Luminaire Tested: **SQ4-F-025U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519805
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

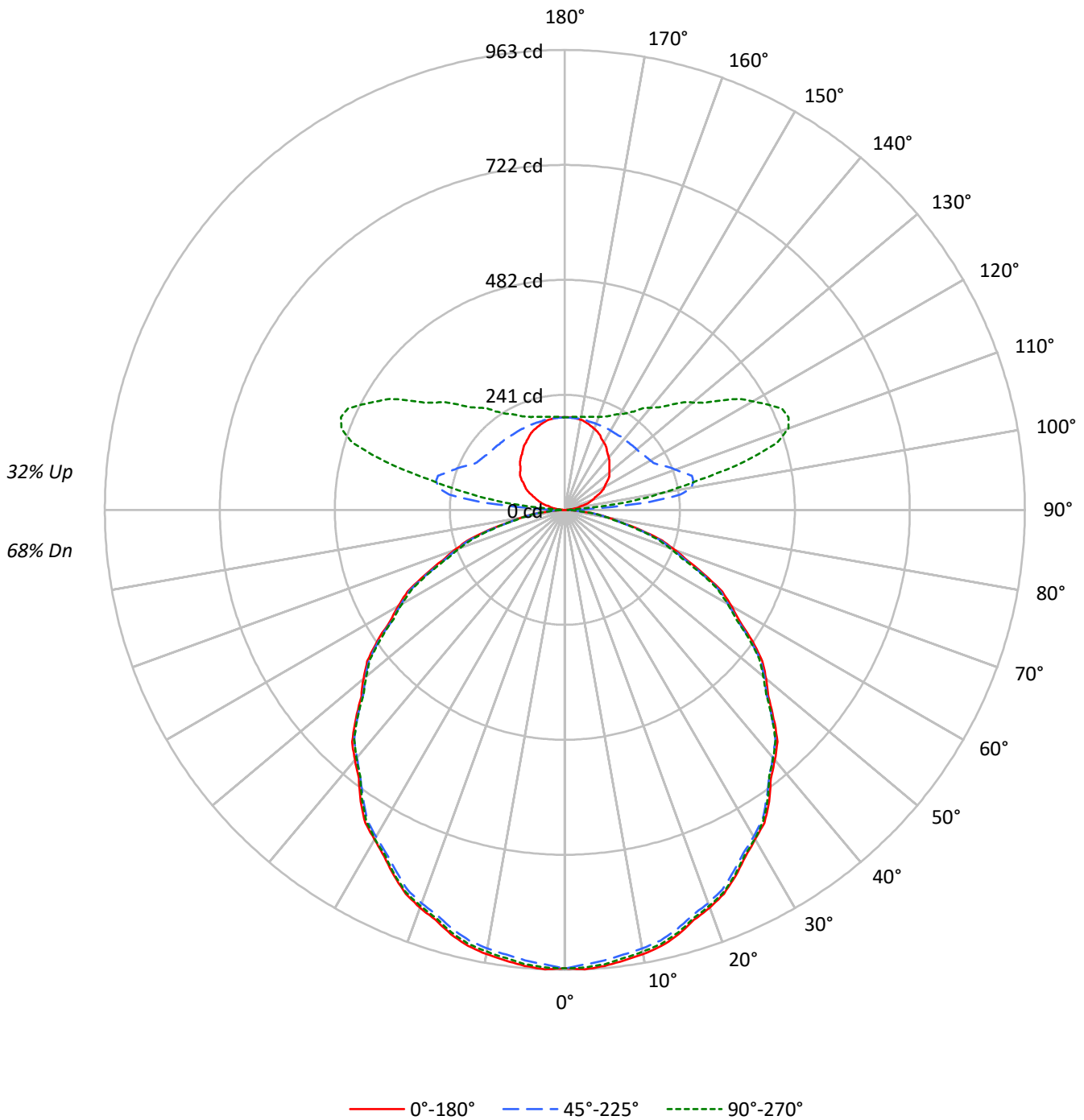
Lumens per Lamp: N/A
Luminaire Lumens: 3880.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 33.8
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5905	5905	5905
5°	5919	5848	5896
10°	5900	5827	5867
15°	5860	5786	5835
20°	5805	5737	5779
25°	5739	5670	5722
30°	5659	5614	5651
35°	5597	5529	5558
40°	5490	5438	5449
45°	5377	5332	5332
50°	5263	5214	5189
55°	5140	5071	5043
60°	4948	4869	4837
65°	4713	4619	4564
70°	4390	4298	4206
75°	3940	3817	3726
80°	3184	3138	3050
85°	1905	2181	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	2.3
10°-20°	257.9	6.6
20°-30°	387.4	10.0
30°-40°	462.5	11.9
40°-50°	473.9	12.2
50°-60°	422.6	10.9
60°-70°	314.7	8.1
70°-80°	170.9	4.4
80°-90°	40.6	1.0
90°-100°	94.7	2.4
100°-110°	248.8	6.4
110°-120°	258.1	6.7
120°-130°	207.0	5.3
130°-140°	162.4	4.2
140°-150°	124.6	3.2
150°-160°	89.8	2.3
160°-170°	54.9	1.4
170°-180°	18.6	0.5
0°-30°	735.9	19.0
0°-40°	1198.4	30.9
0°-60°	2095.0	54.0
0°-90°	2621.2	67.6
90°-120°	601.5	15.5
90°-150°	1095.6	28.2
90°-180°	1259.0	32.4
0°-180°	3880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	947	956	955	91
15°	920	918	909	916	916	259
25°	846	843	835	840	843	389
35°	745	743	736	736	740	465
45°	618	619	613	612	613	477
55°	479	479	473	469	470	427
65°	324	323	317	314	314	321
75°	166	165	161	158	157	175
85°	27	30	31	32	32	38
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	47
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.0	960.0	960.0	960.0	960.0
2.5°	963.1	961.1	952.8	960.0	959.0
5°	958.7	957.5	947.2	956.2	954.9
7.5°	951.8	949.3	939.2	947.9	946.6
10°	944.6	942.1	933.0	940.7	939.4
12.5°	935.4	933.8	923.7	931.5	931.2
15°	920.2	917.6	908.7	916.3	916.3
17.5°	900.2	898.6	889.8	897.3	896.2
20°	886.8	884.3	876.5	882.9	882.9
22.5°	870.3	868.8	861.0	866.4	867.5
25°	845.6	843.1	835.4	840.5	843.1
27.5°	818.4	816.4	809.9	813.3	815.1
30°	796.8	796.8	790.4	791.7	795.6
32.5°	777.3	777.3	769.8	771.1	772.9
35°	745.4	742.9	736.4	736.5	740.2
37.5°	708.4	707.1	703.0	702.3	703.3
40°	683.7	682.4	677.3	678.6	678.6
42.5°	659.1	657.8	652.6	650.9	652.9
45°	618.2	619.4	613.0	611.7	613.0
47.5°	577.8	577.8	572.7	569.2	571.1
50°	550.0	550.0	544.9	542.3	542.3
52.5°	521.2	522.3	516.1	512.6	513.5
55°	479.3	479.3	472.9	469.1	470.3
57.5°	433.1	433.1	426.7	422.9	425.1
60°	402.2	402.2	395.8	392.0	393.2
62.5°	371.4	371.4	364.9	361.1	361.4
65°	323.8	322.6	317.4	313.6	313.6
67.5°	278.1	274.8	270.9	265.7	265.7
70°	244.1	243.0	239.0	233.9	233.9
72.5°	213.4	211.1	207.2	203.0	203.0
75°	165.8	164.6	160.6	158.1	156.8
77.5°	118.7	117.7	117.4	113.9	114.9
80°	89.9	89.9	88.6	86.1	86.1
82.5°	64.3	65.3	63.0	62.4	61.4
85°	27.0	29.5	30.9	32.1	32.1
87.5°	5.4	8.9	9.3	9.3	9.3
90°	1.2	3.6	9.9	5.0	5.0
92.5°	5.3	25.2	55.8	24.7	16.0
95°	12.4	48.9	163.1	84.0	57.3
97.5°	21.7	53.8	244.0	194.0	142.9
100°	28.7	57.8	269.0	272.5	211.6
102.5°	34.6	61.8	275.9	339.4	287.3
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.2	76.7	259.5	458.3	465.1
110°	62.2	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.7
117.5°	89.9	105.4	210.7	408.4	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.4	203.7	366.6	432.5
125°	110.8	124.2	200.4	338.8	399.6
127.5°	118.0	131.6	197.7	316.4	367.8
130°	122.1	136.6	196.7	302.3	349.8
132.5°	126.0	140.6	195.8	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	193.9	260.9	290.9
140°	143.2	155.3	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.2	168.6	191.7	224.4	239.5
150°	163.1	171.7	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	178.0	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.6	184.2	191.7	204.3	206.7
162.5°	183.5	186.2	191.7	202.3	204.6
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	198.9
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.3	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)