

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: P519867

Luminaire Tested: **SQ4-F-025U-125D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519867
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

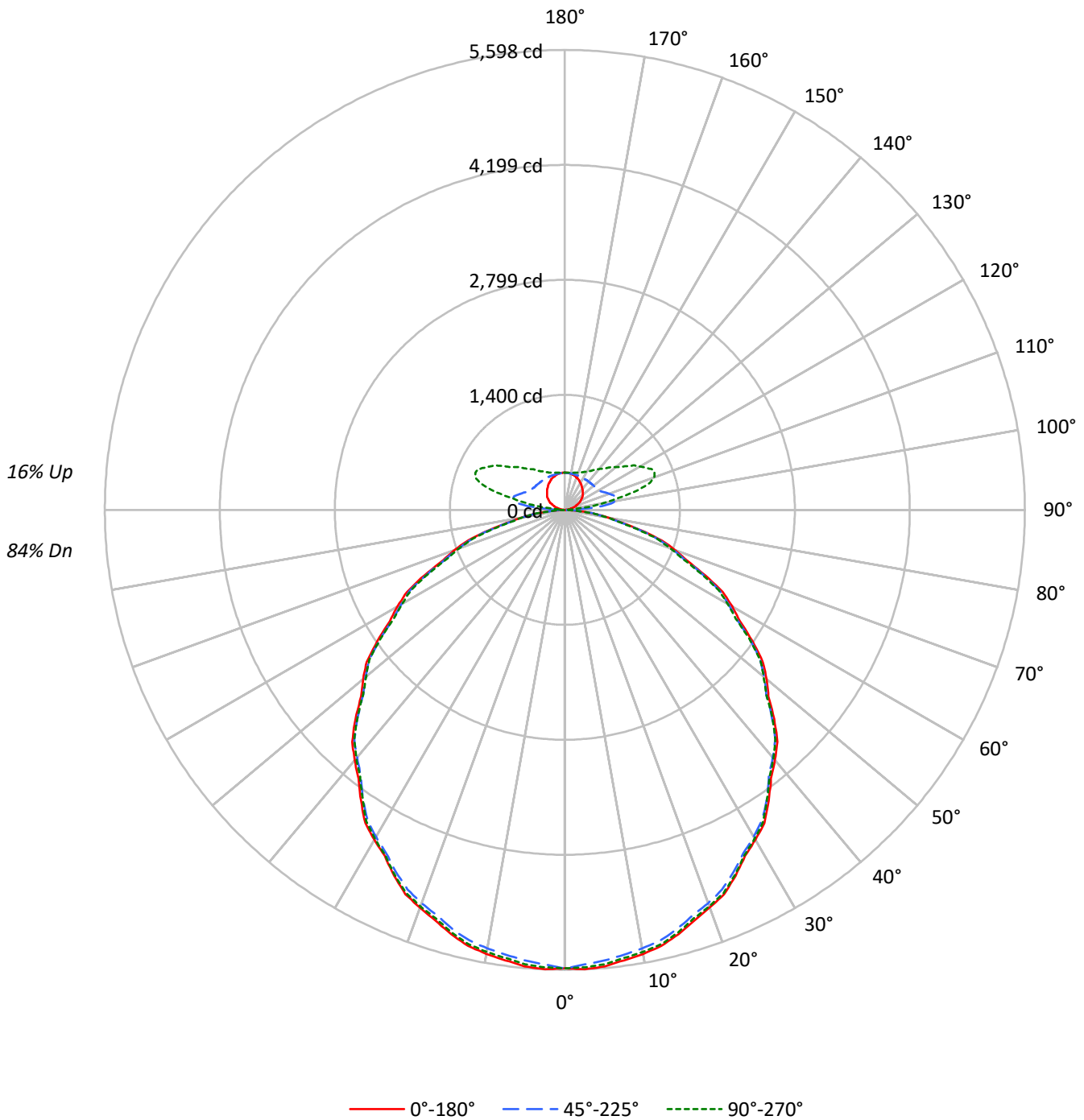
Lumens per Lamp: N/A
Luminaire Lumens: 18154.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 154
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									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	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71																												
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59																												
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50																												
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43																												
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37																												
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32																												
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28																												
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25																												
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23																												
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17161	17161	17161
5°	17218	16999	17142
10°	17138	16928	17062
15°	17024	16819	16955
20°	16866	16675	16806
25°	16674	16497	16633
30°	16469	16326	16413
35°	16235	16096	16108
40°	15967	15794	15843
45°	15668	15494	15521
50°	15326	15149	15105
55°	14936	14721	14688
60°	14451	14130	14055
65°	13700	13409	13230
70°	12758	12427	12261
75°	11349	11095	10765
80°	9247	8976	8921
85°	5526	6288	6288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.5	2.9
10°-20°	1499.5	8.3
20°-30°	2252.9	12.4
30°-40°	2688.1	14.8
40°-50°	2755.4	15.2
50°-60°	2456.0	13.5
60°-70°	1828.3	10.1
70°-80°	990.5	5.5
80°-90°	229.9	1.3
90°-100°	220.1	1.2
100°-110°	578.6	3.2
110°-120°	600.0	3.3
120°-130°	481.3	2.7
130°-140°	377.6	2.1
140°-150°	289.8	1.6
150°-160°	208.7	1.1
160°-170°	127.7	0.7
170°-180°	43.1	0.2
0°-30°	4279.0	23.6
0°-40°	6967.1	38.4
0°-60°	12178.5	67.1
0°-90°	15227.1	83.9
90°-120°	1398.7	7.7
90°-150°	2547.3	14.0
90°-180°	2927.0	16.1
0°-180°	18154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5580	5580	5580	5580	5580	
5°	5577	5568	5506	5556	5553	529
15°	5347	5335	5282	5328	5325	1507
25°	4914	4905	4862	4890	4902	2263
35°	4324	4321	4287	4287	4290	2704
45°	3602	3593	3562	3557	3569	2776
55°	2786	2776	2746	2724	2739	2488
65°	1883	1871	1843	1830	1818	1864
75°	955	955	934	915	906	1014
85°	157	178	178	181	178	216
90°	3	9	23	12	12	6
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1166	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5580.2	5580.2	5580.2	5580.2	5580.2
2.5°	5597.5	5587.8	5538.5	5580.1	5572.9
5°	5577.2	5568.2	5506.5	5555.6	5552.7
7.5°	5530.0	5518.5	5462.4	5508.3	5502.9
10°	5488.1	5479.2	5420.6	5466.6	5463.6
12.5°	5436.5	5427.5	5369.0	5415.0	5414.4
15°	5346.9	5334.9	5282.4	5328.4	5325.3
17.5°	5239.4	5225.6	5173.7	5210.0	5216.1
20°	5153.4	5144.4	5095.1	5128.9	5135.0
22.5°	5065.0	5053.5	5001.7	5040.5	5046.5
25°	4913.8	4904.8	4861.6	4889.5	4901.6
27.5°	4748.0	4748.0	4708.1	4727.9	4735.1
30°	4637.5	4637.5	4597.5	4610.1	4622.0
32.5°	4519.5	4509.8	4472.2	4482.3	4494.3
35°	4324.2	4321.1	4287.3	4287.4	4290.4
37.5°	4122.1	4113.7	4076.7	4079.4	4093.8
40°	3977.1	3971.2	3934.2	3934.4	3946.4
42.5°	3829.7	3823.7	3791.7	3786.8	3791.7
45°	3602.4	3593.4	3562.5	3556.6	3568.7
47.5°	3360.4	3362.9	3326.1	3317.6	3324.2
50°	3203.2	3203.2	3166.3	3148.1	3157.1
52.5°	3038.6	3033.8	2996.9	2976.4	2997.5
55°	2785.6	2776.5	2745.6	2724.4	2739.4
57.5°	2526.3	2512.5	2481.5	2458.3	2466.7
60°	2349.4	2328.5	2297.2	2278.9	2285.0
62.5°	2165.2	2153.7	2120.3	2092.4	2105.6
65°	1882.6	1870.6	1842.7	1830.1	1818.1
67.5°	1605.6	1597.8	1566.3	1553.2	1545.4
70°	1418.8	1403.8	1382.0	1366.6	1363.6
72.5°	1237.1	1219.7	1197.8	1184.7	1176.9
75°	955.1	955.1	933.7	915.0	906.0
77.5°	686.7	689.1	671.4	665.1	660.9
80°	522.1	522.1	506.8	500.7	503.7
82.5°	364.9	372.1	366.7	358.0	353.8
85°	156.6	177.7	178.2	181.1	178.2
87.5°	27.7	45.6	51.6	44.1	39.3
90°	2.9	8.6	23.1	11.6	11.6
92.5°	12.1	58.6	129.7	57.4	37.1
95°	29.0	113.8	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.4
100°	66.6	134.5	625.2	633.6	492.1
102.5°	80.5	143.9	641.5	789.3	668.1
105°	104.2	158.0	639.8	971.2	906.1
107.5°	128.6	178.4	603.2	1065.6	1081.5
110°	144.7	190.0	573.1	1090.0	1157.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.0	204.0	545.3	1074.6	1178.8
115°	185.2	224.9	512.3	1022.2	1166.5
117.5°	209.0	245.3	489.8	949.6	1109.8
120°	222.9	256.8	480.5	900.9	1056.6
122.5°	236.8	270.8	473.5	852.2	1005.7
125°	257.6	288.8	466.1	787.7	929.2
127.5°	274.4	306.2	459.7	735.6	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	293.0	326.9	455.1	674.9	774.1
135°	306.8	338.0	451.5	635.8	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.4	648.5
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.1	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	557.0
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.3	413.7	445.8	489.5	503.6
157.5°	412.7	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.1	444.0	448.7	460.3	462.5
170°	445.8	448.6	448.7	460.2	460.2
172.5°	448.1	448.7	448.7	457.9	455.7
175°	451.5	451.5	448.7	454.5	454.5
177.5°	451.5	451.5	449.3	453.8	451.5
180°	451.5	451.5	451.5	451.5	451.5

(END OF REPORT)