

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: P519819

Luminaire Tested: **SQ4-F-025U-075D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519819
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

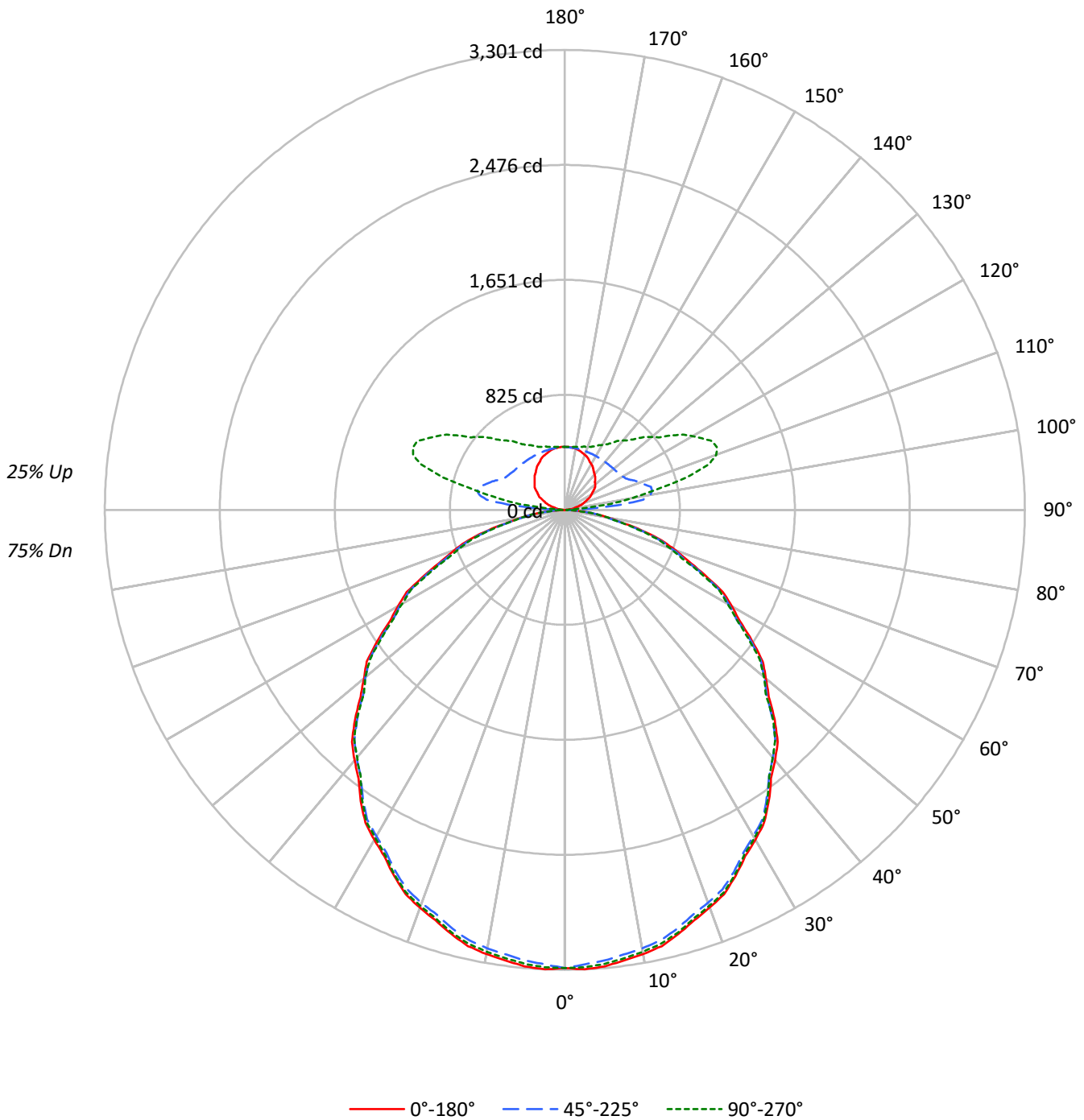
Lumens per Lamp: N/A
Luminaire Lumens: 11908.1 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.4
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10115	10115	10115
5°	10154	10025	10098
10°	10113	9982	10057
15°	10035	9912	9997
20°	9945	9827	9905
25°	9835	9734	9805
30°	9710	9604	9657
35°	9583	9482	9527
40°	9422	9326	9314
45°	9260	9143	9169
50°	9002	8931	8931
55°	8793	8682	8601
60°	8510	8364	8290
65°	8051	7898	7790
70°	7561	7373	7186
75°	6803	6556	6414
80°	5439	5333	5281
85°	3260	3684	3790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	2.6
10°-20°	883.8	7.4
20°-30°	1327.8	11.2
30°-40°	1584.4	13.3
40°-50°	1624.9	13.6
50°-60°	1447.9	12.2
60°-70°	1079.6	9.1
70°-80°	585.4	4.9
80°-90°	137.0	1.2
90°-100°	220.1	1.8
100°-110°	578.6	4.9
110°-120°	600.0	5.0
120°-130°	481.3	4.0
130°-140°	377.6	3.2
140°-150°	289.8	2.4
150°-160°	208.7	1.8
160°-170°	127.7	1.1
170°-180°	43.1	0.4
0°-30°	2522.1	21.2
0°-40°	4106.5	34.5
0°-60°	7179.3	60.3
0°-90°	8981.2	75.4
90°-120°	1398.7	11.7
90°-150°	2547.3	21.4
90°-180°	2927.0	24.6
0°-180°	11908.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3289	3289	3289	3289	3289	
5°	3289	3283	3247	3274	3271	312
15°	3152	3146	3113	3137	3140	889
25°	2898	2896	2868	2884	2890	1335
35°	2552	2547	2526	2526	2538	1595
45°	2129	2120	2102	2102	2108	1639
55°	1640	1637	1619	1604	1604	1465
65°	1106	1106	1085	1073	1070	1101
75°	572	561	552	543	540	601
85°	92	98	104	104	107	128
90°	3	9	23	12	12	5
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°	3289.0	3289.0	3289.0	3289.0	3289.0
2.5°	3300.9	3293.9	3265.2	3288.9	3286.7
5°	3289.0	3283.2	3247.3	3274.1	3271.1
7.5°	3262.2	3255.8	3220.4	3247.3	3246.7
10°	3238.3	3229.6	3196.6	3223.4	3220.4
12.5°	3207.4	3198.6	3165.6	3192.4	3189.4
15°	3151.8	3146.0	3113.1	3137.0	3139.9
17.5°	3088.7	3077.6	3048.1	3071.5	3074.3
20°	3038.6	3029.8	3002.8	3023.7	3026.6
22.5°	2986.0	2977.3	2950.3	2971.2	2974.1
25°	2898.4	2895.5	2868.5	2883.6	2889.5
27.5°	2803.6	2795.4	2773.8	2785.2	2791.1
30°	2734.4	2728.6	2704.6	2713.6	2719.5
32.5°	2662.9	2659.3	2637.8	2642.1	2650.3
35°	2552.5	2546.7	2525.7	2525.9	2537.6
37.5°	2430.2	2423.8	2406.4	2403.5	2408.2
40°	2346.8	2338.0	2322.9	2319.9	2319.9
42.5°	2260.9	2254.5	2234.6	2229.4	2236.4
45°	2129.1	2120.4	2102.2	2102.3	2108.2
47.5°	1986.5	1983.1	1962.1	1952.6	1954.9
50°	1881.6	1887.4	1866.7	1855.0	1866.7
52.5°	1790.9	1787.4	1768.8	1757.0	1761.7
55°	1640.0	1637.1	1619.2	1604.2	1604.2
57.5°	1488.6	1481.0	1462.3	1451.2	1460.0
60°	1383.6	1380.6	1359.8	1339.1	1347.8
62.5°	1278.6	1273.4	1252.4	1238.8	1245.2
65°	1106.3	1106.3	1085.4	1073.4	1070.5
67.5°	955.4	941.5	929.7	915.4	911.2
70°	840.9	829.3	820.0	807.9	799.2
72.5°	728.8	721.8	707.9	695.9	694.2
75°	572.5	560.8	551.7	542.6	539.8
77.5°	407.3	405.0	396.6	391.9	393.6
80°	307.1	307.1	301.1	301.1	298.2
82.5°	216.5	218.9	217.7	212.9	212.3
85°	92.4	98.3	104.4	104.4	107.4
87.5°	17.3	30.1	31.0	28.6	28.6
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)