

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: P519878

Luminaire Tested: **SQ4-F-025U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519878
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

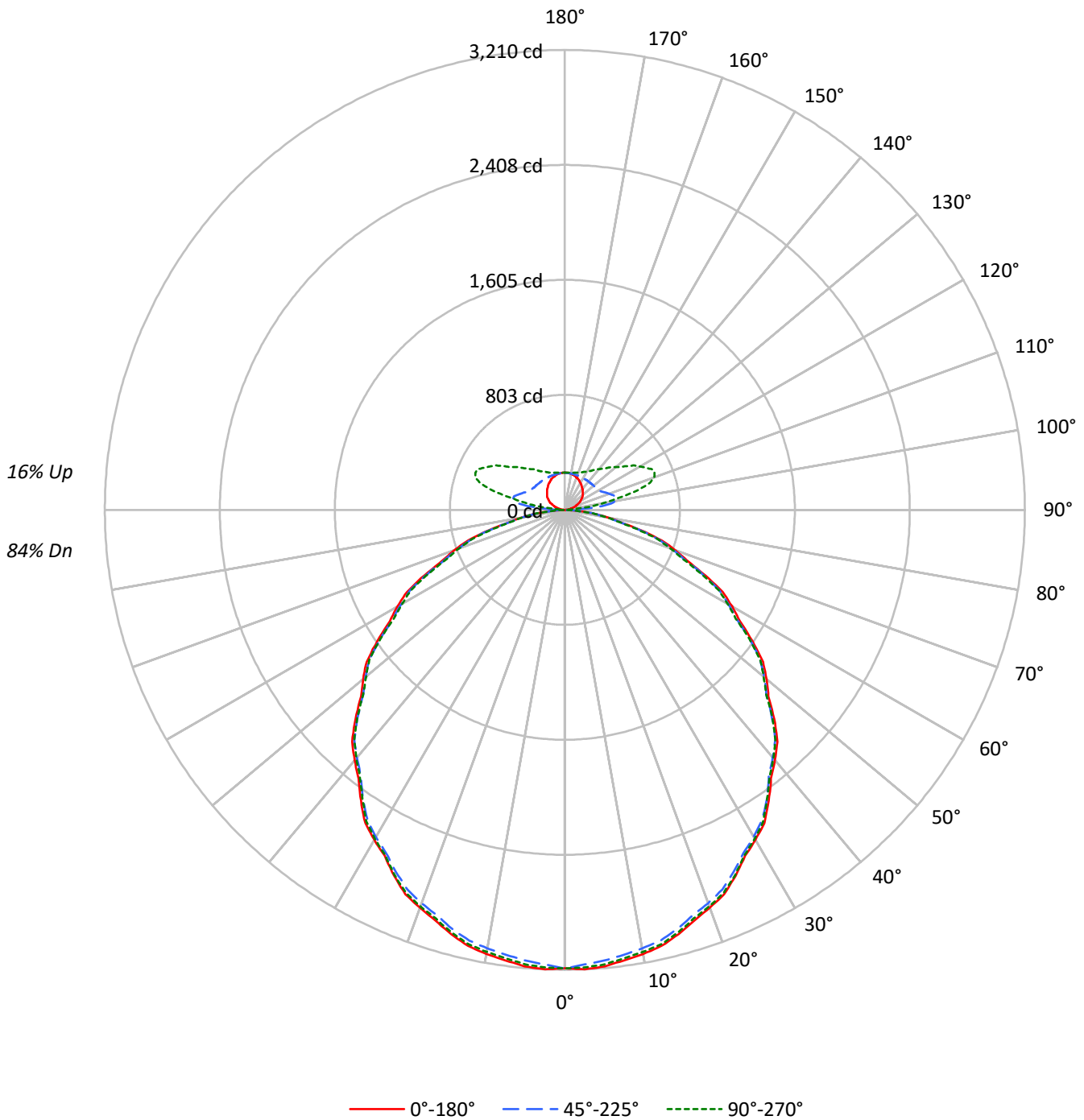
Lumens per Lamp: N/A
Luminaire Lumens: 10411.1 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 98.1
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	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°	14763	14763	14763
5°	14811	14623	14746
10°	14743	14562	14677
15°	14645	14468	14585
20°	14509	14345	14457
25°	14344	14191	14308
30°	14167	14045	14120
35°	13966	13846	13856
40°	13735	13587	13630
45°	13478	13328	13352
50°	13184	13032	12993
55°	12848	12664	12636
60°	12431	12156	12090
65°	11785	11536	11382
70°	10976	10690	10547
75°	9764	9543	9259
80°	7954	7720	7675
85°	4753	5409	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.9	2.9
10°-20°	860.0	8.3
20°-30°	1292.0	12.4
30°-40°	1541.6	14.8
40°-50°	1580.2	15.2
50°-60°	1408.5	13.5
60°-70°	1048.5	10.1
70°-80°	568.0	5.5
80°-90°	131.8	1.3
90°-100°	126.2	1.2
100°-110°	331.8	3.2
110°-120°	344.1	3.3
120°-130°	276.0	2.7
130°-140°	216.5	2.1
140°-150°	166.2	1.6
150°-160°	119.7	1.1
160°-170°	73.2	0.7
170°-180°	24.7	0.2
0°-30°	2453.9	23.6
0°-40°	3995.6	38.4
0°-60°	6984.2	67.1
0°-90°	8732.6	83.9
90°-120°	802.1	7.7
90°-150°	1460.8	14.0
90°-180°	1679.0	16.1
0°-180°	10411.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3200	3200	3200	3200	3200	
5°	3198	3193	3158	3186	3184	303
15°	3066	3060	3029	3056	3054	864
25°	2818	2813	2788	2804	2811	1298
35°	2480	2478	2459	2459	2460	1551
45°	2066	2061	2043	2040	2047	1592
55°	1598	1592	1575	1562	1571	1427
65°	1080	1073	1057	1050	1043	1069
75°	548	548	535	525	520	582
85°	90	102	102	104	102	124
90°	2	5	13	7	7	4
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3200.3	3200.3	3200.3	3200.3	3200.3
2.5°	3210.1	3204.5	3176.3	3200.2	3196.0
5°	3198.5	3193.3	3157.9	3186.1	3184.4
7.5°	3171.4	3164.8	3132.6	3158.9	3155.9
10°	3147.4	3142.2	3108.7	3135.0	3133.3
12.5°	3117.8	3112.6	3079.1	3105.5	3105.1
15°	3066.4	3059.5	3029.4	3055.8	3054.0
17.5°	3004.8	2996.8	2967.1	2988.0	2991.4
20°	2955.4	2950.2	2922.0	2941.4	2944.9
22.5°	2904.7	2898.2	2868.5	2890.7	2894.1
25°	2818.1	2812.9	2788.1	2804.1	2811.0
27.5°	2722.9	2722.9	2700.0	2711.4	2715.5
30°	2659.6	2659.6	2636.7	2643.9	2650.8
32.5°	2591.9	2586.4	2564.8	2570.6	2577.5
35°	2479.9	2478.2	2458.7	2458.8	2460.5
37.5°	2364.0	2359.2	2337.9	2339.5	2347.8
40°	2280.8	2277.4	2256.2	2256.4	2263.3
42.5°	2196.3	2192.8	2174.5	2171.7	2174.5
45°	2066.0	2060.8	2043.0	2039.7	2046.6
47.5°	1927.2	1928.5	1907.4	1902.6	1906.4
50°	1837.0	1837.0	1815.9	1805.4	1810.5
52.5°	1742.6	1739.8	1718.6	1707.0	1719.0
55°	1597.5	1592.3	1574.6	1562.4	1571.1
57.5°	1448.8	1440.9	1423.1	1409.8	1414.7
60°	1347.4	1335.3	1317.5	1306.9	1310.4
62.5°	1241.7	1235.2	1216.0	1199.9	1207.5
65°	1079.7	1072.8	1056.8	1049.6	1042.7
67.5°	920.8	916.3	898.3	890.8	886.3
70°	813.8	805.1	792.6	783.8	782.0
72.5°	709.5	699.4	686.9	679.4	674.9
75°	547.8	547.8	535.4	524.7	519.5
77.5°	393.9	395.2	385.0	381.4	379.1
80°	299.4	299.4	290.6	287.1	288.9
82.5°	209.2	213.3	210.3	205.3	202.9
85°	89.8	101.9	102.2	103.9	102.2
87.5°	15.8	26.1	29.6	25.3	22.5
90°	1.6	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	33.0	21.2
95°	16.6	65.3	217.5	112.0	76.4
97.5°	28.9	71.8	325.4	258.8	190.6
100°	38.1	77.1	358.5	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.7	90.6	366.9	557.0	519.6
107.5°	73.7	102.3	345.9	611.1	620.2
110°	83.0	109.0	328.7	625.0	664.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.2	676.0
115°	106.3	128.9	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.6	605.9
122.5°	135.8	155.2	271.6	488.7	576.7
125°	147.8	165.6	267.3	451.7	532.9
127.5°	157.3	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.4	260.9	387.1	443.9
135°	176.0	193.8	258.9	364.7	413.3
137.5°	184.3	201.8	258.7	347.8	387.8
140°	190.9	207.1	257.3	334.6	371.8
142.5°	196.2	211.1	257.3	325.1	357.2
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.6	308.7
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.7	237.2	255.7	280.7	288.9
157.5°	236.8	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.2	255.7	269.6	272.9
165°	249.0	252.3	255.7	265.7	269.0
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	263.9	263.9
172.5°	256.9	257.3	257.3	262.6	261.3
175°	258.9	258.9	257.3	260.7	260.7
177.5°	258.9	258.9	257.6	260.3	258.9
180°	258.9	258.9	258.9	258.9	258.9

(END OF REPORT)