

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: P563877

Luminaire Tested: **SQ4-PR1-025U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563877
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11468.5 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

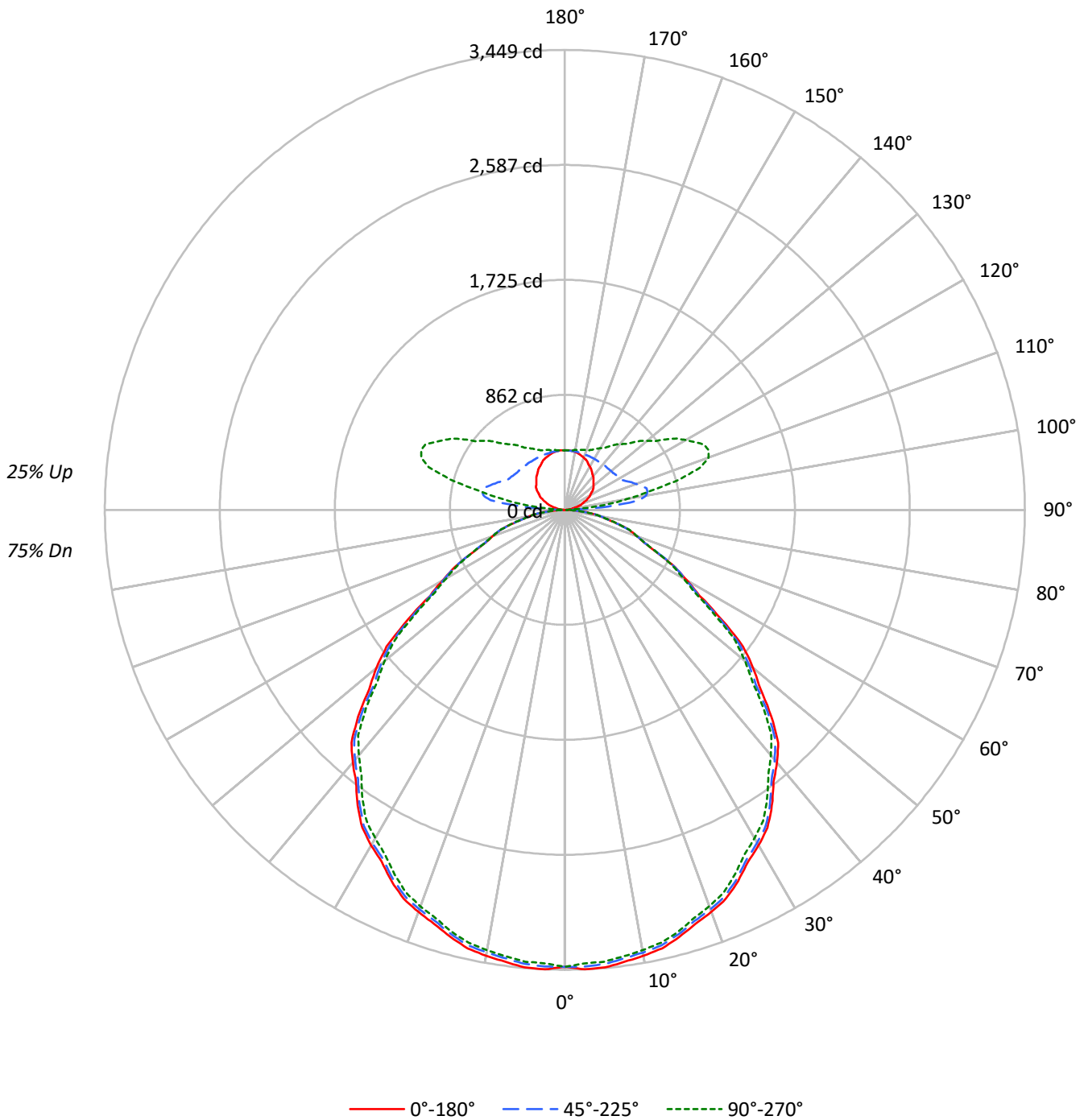
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10163	10075	9931
40°	9932	9825	9648
45°	9527	9360	9168
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5629	5586
70°	5150	5177	5177
75°	4947	4947	4981
80°	4653	4706	4653
85°	3751	4167	4167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	2.8
10°-20°	927.3	8.1
20°-30°	1398.7	12.2
30°-40°	1666.6	14.5
40°-50°	1643.1	14.3
50°-60°	1255.7	10.9
60°-70°	777.1	6.8
70°-80°	441.4	3.8
80°-90°	136.7	1.2
90°-100°	217.9	1.9
100°-110°	572.8	5.0
110°-120°	594.0	5.2
120°-130°	476.5	4.2
130°-140°	373.8	3.3
140°-150°	286.9	2.5
150°-160°	206.7	1.8
160°-170°	126.4	1.1
170°-180°	42.7	0.4
0°-30°	2650.2	23.1
0°-40°	4316.8	37.6
0°-60°	7215.6	62.9
0°-90°	8570.7	74.7
90°-120°	1384.7	12.1
90°-150°	2521.9	22.0
90°-180°	2898.0	25.3
0°-180°	11468.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3428	3428	3428	3428	3428	
5°	3445	3408	3419	3407	3401	327
15°	3315	3281	3295	3283	3277	936
25°	3073	3036	3053	3020	3017	1414
35°	2707	2675	2684	2648	2645	1690
45°	2190	2162	2152	2114	2108	1678
55°	1435	1412	1402	1378	1373	1286
65°	770	765	774	768	768	781
75°	416	416	416	419	419	440
85°	106	112	118	118	118	124
90°	3	8	23	12	12	7
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3427.5	3427.5	3427.5	3427.5	3427.5
2.5°	3448.7	3418.7	3427.5	3420.0	3403.9
5°	3445.2	3407.7	3418.6	3406.7	3400.9
7.5°	3418.6	3381.7	3392.6	3380.8	3377.3
10°	3395.0	3360.4	3371.4	3359.4	3353.7
12.5°	3369.0	3332.1	3345.4	3331.1	3325.3
15°	3315.3	3280.7	3294.6	3282.7	3276.9
17.5°	3256.3	3219.3	3233.2	3219.5	3212.0
20°	3209.0	3174.4	3188.4	3167.6	3164.7
22.5°	3157.1	3122.4	3136.4	3108.6	3108.1
25°	3073.2	3035.7	3052.6	3020.0	3017.1
27.5°	2973.4	2938.8	2952.8	2919.6	2916.2
30°	2904.9	2870.3	2884.3	2848.7	2842.9
32.5°	2827.0	2794.7	2806.3	2770.8	2767.4
35°	2707.1	2675.4	2683.5	2648.0	2645.2
37.5°	2570.8	2541.9	2546.6	2507.5	2504.6
40°	2473.9	2445.1	2447.4	2406.0	2403.1
42.5°	2367.6	2338.8	2336.4	2295.0	2292.1
45°	2190.5	2161.7	2152.1	2113.6	2107.9
47.5°	1988.6	1959.7	1941.9	1910.6	1906.5
50°	1842.2	1813.3	1797.9	1771.1	1762.5
52.5°	1683.9	1655.1	1642.0	1617.6	1608.9
55°	1434.8	1411.7	1402.3	1378.5	1372.8
57.5°	1198.0	1182.4	1179.7	1156.6	1154.3
60°	1053.9	1045.3	1045.1	1024.4	1024.4
62.5°	931.1	924.8	929.3	915.7	913.4
65°	770.5	764.7	773.5	767.6	767.6
67.5°	643.6	643.6	648.9	646.5	646.5
70°	572.7	572.7	575.7	575.7	575.7
72.5°	509.0	506.6	514.3	514.2	511.9
75°	416.3	416.3	416.3	419.2	419.2
77.5°	324.1	324.7	327.1	326.5	324.1
80°	262.7	265.6	265.7	262.7	262.7
82.5°	201.3	204.2	204.3	203.6	201.3
85°	106.3	112.1	118.1	118.1	118.1
87.5°	31.3	41.6	51.8	49.5	47.2
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)