

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: P519854

Luminaire Tested: **SQ4-F-025U-100D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519854
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

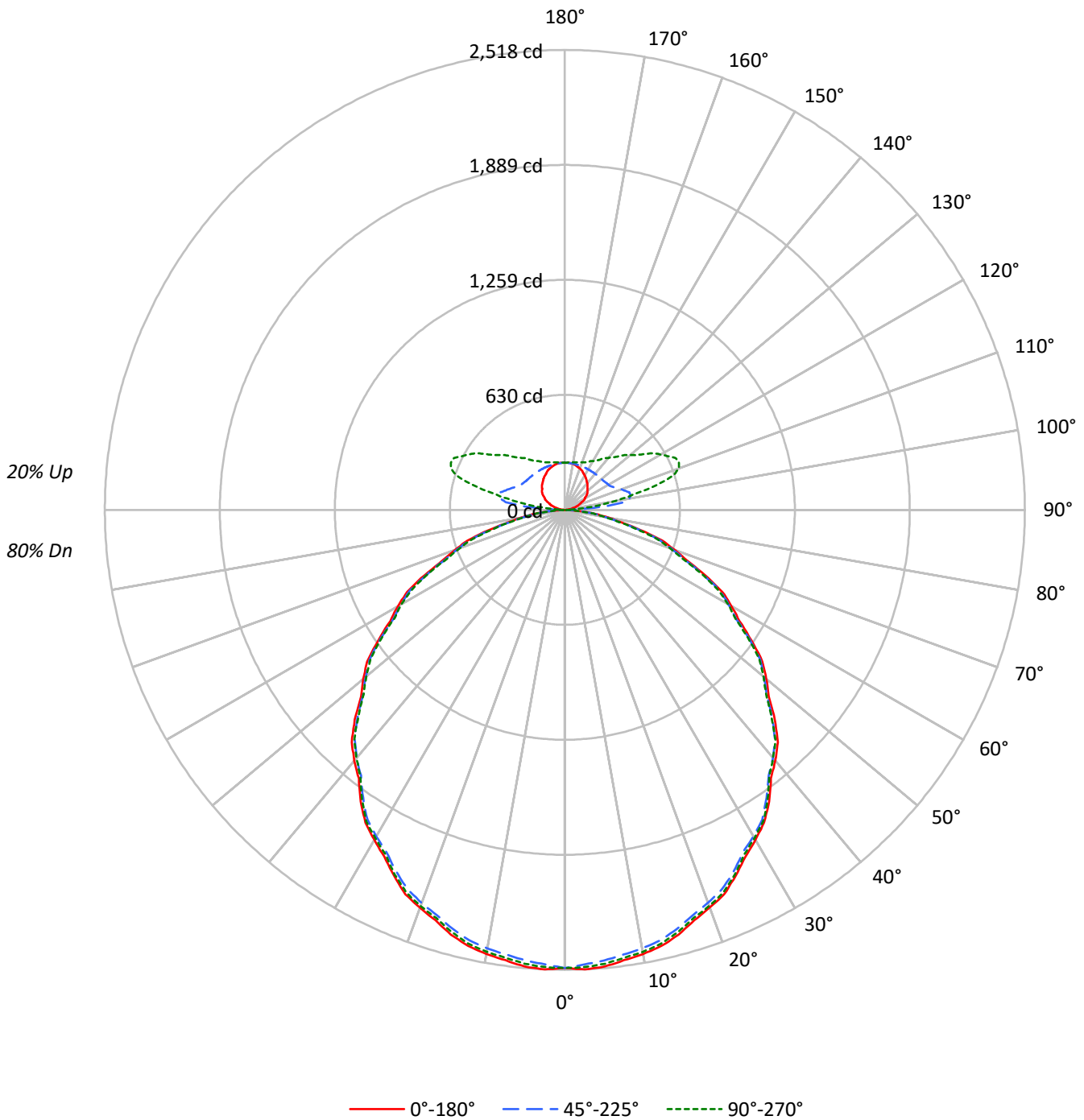
Lumens per Lamp: N/A
Luminaire Lumens: 8522.3 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.3
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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	73	71	68
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	56
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	48
4	79	68	59	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	50	44	54	47	42	50	44	40	46	42	38	35
6	67	54	46	40	64	52	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11573	11573	11573
5°	11625	11466	11554
10°	11566	11421	11509
15°	11496	11340	11430
20°	11377	11242	11335
25°	11253	11122	11209
30°	11116	10997	11052
35°	10976	10841	10899
40°	10794	10670	10680
45°	10604	10458	10425
50°	10331	10207	10182
55°	10027	9916	9847
60°	9722	9547	9515
65°	9248	9040	8965
70°	8593	8383	8222
75°	7671	7425	7274
80°	6312	6084	5810
85°	3732	4102	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	2.8
10°-20°	674.3	7.9
20°-30°	1012.6	11.9
30°-40°	1208.4	14.2
40°-50°	1238.6	14.5
50°-60°	1103.0	12.9
60°-70°	822.2	9.6
70°-80°	445.2	5.2
80°-90°	102.7	1.2
90°-100°	126.2	1.5
100°-110°	331.8	3.9
110°-120°	344.1	4.0
120°-130°	276.0	3.2
130°-140°	216.5	2.5
140°-150°	166.2	2.0
150°-160°	119.7	1.4
160°-170°	73.2	0.9
170°-180°	24.7	0.3
0°-30°	1923.6	22.6
0°-40°	3132.0	36.8
0°-60°	5473.7	64.2
0°-90°	6843.8	80.3
90°-120°	802.1	9.4
90°-150°	1460.8	17.1
90°-180°	1679.0	19.7
0°-180°	8522.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2510	2505	2476	2498	2495	238
15°	2407	2399	2374	2393	2393	678
25°	2211	2206	2185	2197	2202	1019
35°	1949	1941	1925	1929	1935	1217
45°	1625	1617	1603	1594	1598	1251
55°	1247	1248	1233	1221	1224	1116
65°	847	844	828	820	821	838
75°	430	425	417	408	408	458
85°	70	77	78	79	79	99
90°	2	5	13	7	7	3
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°	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2518.4	2512.9	2490.8	2508.7	2506.0
5°	2510.4	2505.4	2476.0	2498.4	2495.0
7.5°	2487.1	2482.0	2456.1	2476.7	2473.6
10°	2469.1	2464.1	2438.1	2458.7	2457.0
12.5°	2445.7	2440.7	2414.7	2435.3	2433.7
15°	2407.1	2398.7	2374.4	2393.3	2393.3
17.5°	2356.2	2349.7	2327.2	2343.1	2343.4
20°	2317.6	2312.6	2290.1	2307.3	2309.0
22.5°	2279.0	2273.9	2248.7	2264.6	2267.7
25°	2210.8	2205.8	2185.1	2197.1	2202.2
27.5°	2140.6	2133.1	2112.7	2123.4	2127.2
30°	2086.9	2083.5	2064.5	2069.7	2074.8
32.5°	2030.4	2027.0	2010.8	2013.4	2022.5
35°	1949.1	1940.7	1925.0	1928.6	1935.4
37.5°	1853.0	1849.0	1833.7	1831.8	1838.3
40°	1792.4	1785.7	1771.8	1768.4	1773.5
42.5°	1726.3	1719.6	1702.9	1699.6	1706.0
45°	1625.4	1617.0	1603.1	1594.5	1597.9
47.5°	1512.5	1512.5	1498.0	1488.1	1493.2
50°	1439.5	1439.5	1422.2	1413.7	1418.8
52.5°	1363.7	1365.1	1346.4	1342.0	1340.3
55°	1246.7	1248.3	1232.9	1220.9	1224.3
57.5°	1133.7	1129.9	1112.0	1104.1	1105.8
60°	1053.7	1048.7	1034.8	1022.9	1031.3
62.5°	972.5	970.1	956.3	942.9	941.9
65°	847.2	843.8	828.2	819.6	821.3
67.5°	722.5	718.4	704.3	691.9	696.4
70°	637.1	637.1	621.5	614.6	609.6
72.5°	558.5	551.8	540.3	530.6	526.9
75°	430.4	425.4	416.6	408.1	408.1
77.5°	313.4	309.0	303.4	297.5	295.9
80°	237.6	235.9	229.0	227.1	218.7
82.5°	167.3	167.1	162.9	158.4	158.0
85°	70.5	77.3	77.5	79.2	79.2
87.5°	12.8	21.5	22.0	17.9	17.9
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)