

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: P563801

Luminaire Tested: **SQ4-PP3-150U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563801
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

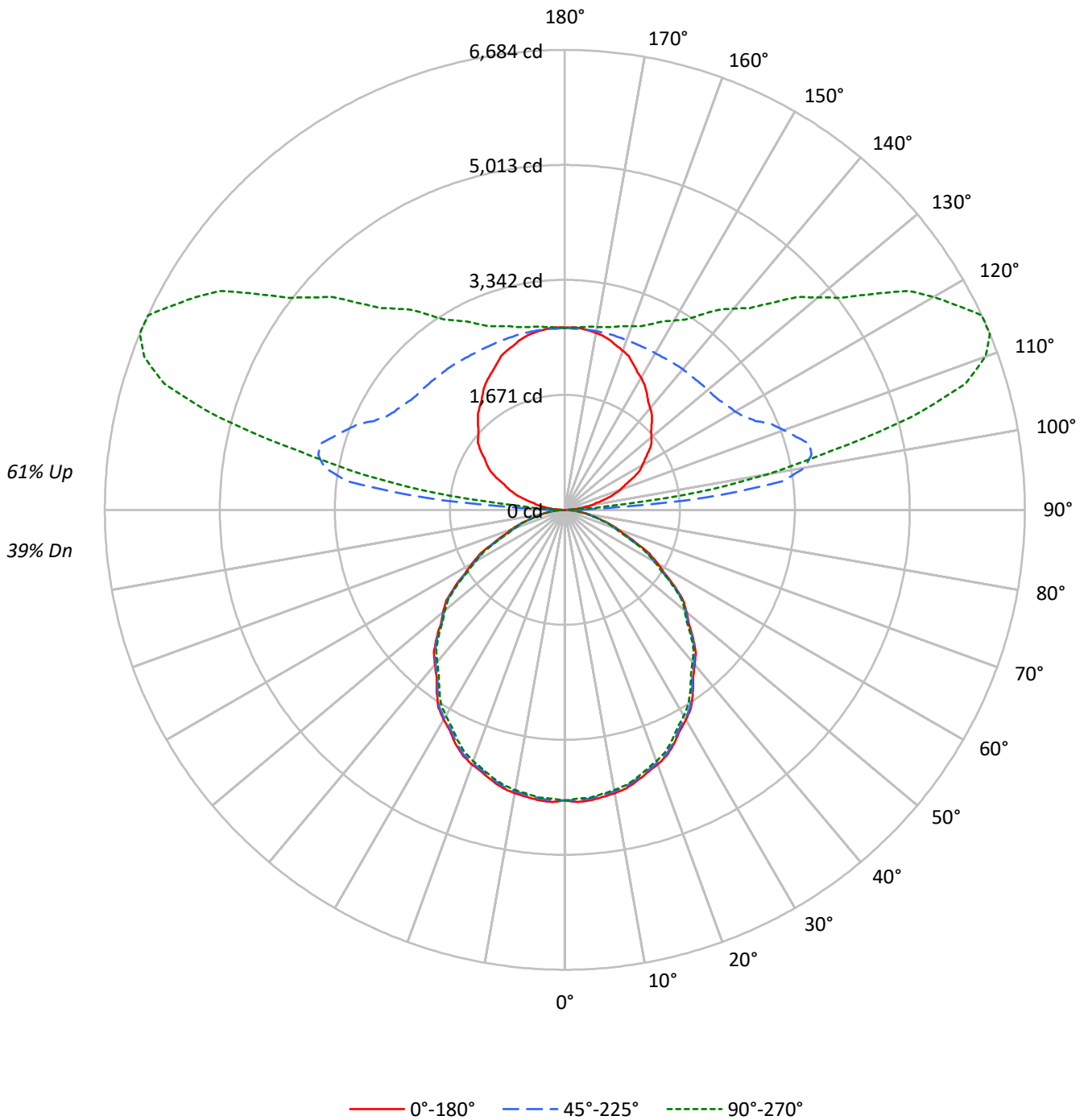
Lumens per Lamp: N/A
Luminaire Lumens: 27873.3 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 223.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13084	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5506	5572	5441
85°	4312	4704	4704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.4
10°-20°	1140.4	4.1
20°-30°	1708.1	6.1
30°-40°	2003.5	7.2
40°-50°	2009.8	7.2
50°-60°	1714.5	6.2
60°-70°	1118.1	4.0
70°-80°	561.0	2.0
80°-90°	160.8	0.6
90°-100°	1229.6	4.4
100°-110°	3324.5	11.9
110°-120°	3495.2	12.5
120°-130°	2839.1	10.2
130°-140°	2227.0	8.0
140°-150°	1709.2	6.1
150°-160°	1229.3	4.4
160°-170°	750.9	2.7
170°-180°	253.2	0.9
0°-30°	3247.8	11.7
0°-40°	5251.3	18.8
0°-60°	8975.6	32.2
0°-90°	10815.4	38.8
90°-120°	8049.2	28.9
90°-150°	14824.5	53.2
90°-180°	17058.0	61.2
0°-180°	27873.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4238	4198	4212	4198	4198	402
15°	4076	4036	4053	4038	4031	1150
25°	3753	3710	3728	3694	3690	1726
35°	3243	3210	3220	3183	3180	2026
45°	2636	2618	2617	2591	2591	2029
55°	1954	1947	1928	1917	1914	1737
65°	1155	1133	1107	1100	1103	1153
75°	526	526	518	514	511	570
85°	122	133	133	133	133	144
90°	6	17	37	40	37	17
95°	191	670	2045	1058	629	200
105°	618	955	3688	5440	5217	651
115°	1088	1330	3059	5921	6684	1074
125°	1490	1707	2757	4652	5465	1328
135°	1786	1997	2683	3756	4252	1380
145°	2076	2232	2646	3215	3460	1299
155°	2344	2436	2623	2884	2979	1081
165°	2552	2577	2634	2737	2751	719
175°	2649	2646	2637	2671	2666	251
180°	2646	2646	2646	2646	2646	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4223.5	4223.5	4223.5	4223.5	4223.5
2.5°	4250.2	4215.4	4223.5	4217.2	4199.9
5°	4238.3	4198.5	4212.4	4197.6	4197.6
7.5°	4209.5	4166.0	4179.9	4165.0	4164.3
10°	4182.8	4139.4	4153.2	4138.3	4134.7
12.5°	4144.3	4100.9	4117.7	4099.9	4099.2
15°	4075.5	4035.7	4053.3	4038.3	4031.1
17.5°	3997.7	3954.3	3975.5	3954.7	3951.8
20°	3938.5	3895.1	3916.3	3886.7	3886.7
22.5°	3867.4	3824.0	3848.2	3809.7	3809.7
25°	3753.4	3710.0	3727.5	3694.1	3690.5
27.5°	3618.0	3575.2	3593.5	3555.8	3555.0
30°	3520.2	3480.4	3501.7	3460.9	3457.3
32.5°	3413.6	3376.7	3392.2	3351.4	3347.7
35°	3242.6	3210.0	3220.4	3183.3	3179.7
37.5°	3062.7	3029.4	3041.2	3009.4	3007.9
40°	2935.4	2913.7	2916.9	2890.8	2883.6
42.5°	2816.9	2792.3	2795.5	2769.5	2768.1
45°	2635.5	2617.5	2617.0	2591.1	2591.1
47.5°	2443.1	2429.3	2425.3	2403.8	2403.1
50°	2309.8	2298.9	2295.0	2276.4	2272.8
52.5°	2170.6	2165.6	2152.9	2137.3	2136.6
55°	1954.5	1947.2	1928.5	1917.4	1913.7
57.5°	1719.8	1705.3	1684.2	1668.0	1670.9
60°	1551.0	1536.5	1506.6	1499.2	1499.2
62.5°	1388.1	1370.7	1340.7	1330.5	1336.3
65°	1154.9	1133.2	1106.8	1099.5	1103.1
67.5°	943.2	923.6	895.1	895.0	892.1
70°	807.0	796.1	773.6	773.6	773.6
72.5°	685.5	680.5	664.1	664.0	661.1
75°	525.6	525.6	518.2	514.4	510.8
77.5°	393.9	395.3	391.6	387.8	381.3
80°	310.9	318.2	314.6	310.9	307.2
82.5°	233.9	241.2	240.6	233.9	233.2
85°	122.2	133.0	133.3	133.3	133.3
87.5°	33.7	47.5	54.8	55.4	57.7
90°	5.7	16.8	37.0	39.8	37.0
92.5°	80.9	294.7	581.5	252.5	182.8
95°	190.8	669.8	2044.8	1058.2	629.4
97.5°	306.4	768.1	3187.4	2637.8	1937.2
100°	393.0	807.9	3542.8	3694.8	2987.5
102.5°	472.8	863.2	3668.1	4496.2	3967.1
105°	618.0	954.9	3688.0	5440.1	5217.4
107.5°	752.4	1059.8	3526.9	6029.0	6103.1
110°	857.2	1135.7	3383.3	6187.1	6501.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	950.6	1211.3	3251.2	6155.5	6684.1
115°	1087.9	1330.2	3058.7	5921.1	6684.1
117.5°	1222.3	1449.6	2931.6	5562.8	6427.7
120°	1304.3	1527.1	2856.5	5305.8	6188.5
122.5°	1381.8	1600.1	2810.9	5030.3	5919.7
125°	1489.5	1706.7	2756.8	4652.0	5465.1
127.5°	1588.6	1801.9	2724.9	4343.4	5058.5
130°	1643.2	1863.2	2711.2	4152.7	4798.7
132.5°	1700.2	1918.0	2697.5	3980.7	4575.5
135°	1785.6	1997.3	2682.7	3756.3	4251.9
137.5°	1871.6	2071.6	2670.2	3574.2	3978.0
140°	1930.9	2117.5	2665.6	3457.0	3816.2
142.5°	1987.8	2163.3	2656.5	3351.2	3665.8
145°	2076.1	2232.1	2645.7	3215.2	3460.2
147.5°	2156.4	2294.6	2633.2	3092.0	3280.2
150°	2215.7	2338.2	2628.6	3025.1	3175.4
152.5°	2270.4	2377.3	2626.3	2962.9	3086.6
155°	2343.8	2435.7	2622.9	2884.2	2978.9
157.5°	2420.2	2484.2	2623.5	2829.4	2891.8
160°	2463.4	2516.4	2625.8	2794.8	2839.4
162.5°	2497.6	2541.6	2628.1	2767.2	2800.6
165°	2551.7	2576.8	2634.3	2737.2	2751.1
167.5°	2588.8	2606.0	2634.9	2711.4	2718.0
170°	2611.5	2619.9	2637.2	2699.8	2699.8
172.5°	2629.8	2631.4	2637.2	2686.1	2683.9
175°	2648.6	2645.8	2637.2	2671.2	2665.6
177.5°	2654.8	2648.1	2636.6	2659.2	2652.5
180°	2645.7	2645.7	2645.7	2645.7	2645.7

(END OF REPORT)