

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: P563981

Luminaire Tested: **SQ4-PR1-050U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563981
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11576.4 lumens
Efficiency: N/A
Efficacy: 109.6 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: General Diffuse

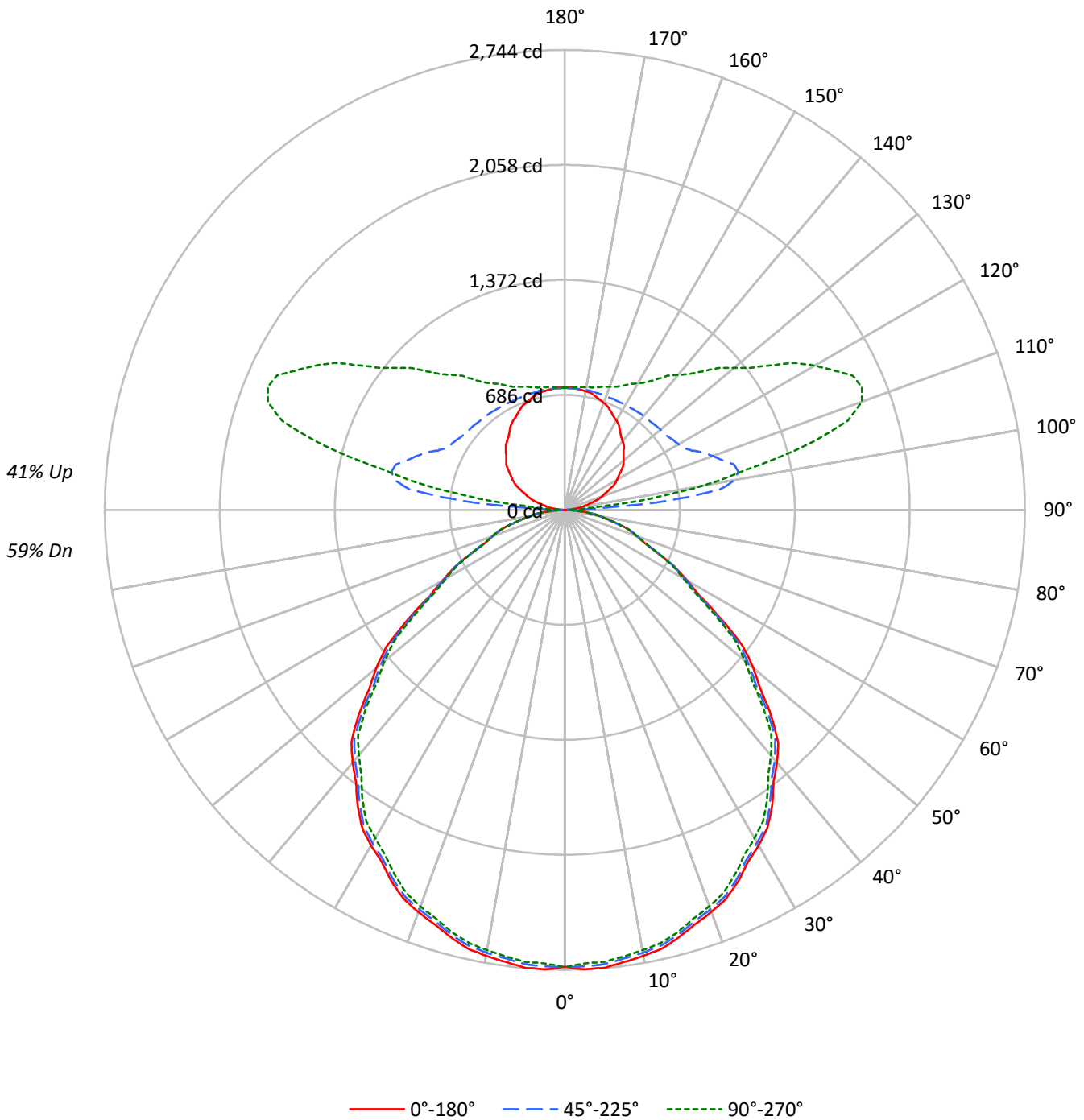
Input Watts (W): 105.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8463	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8298	8243	8147
30°	8209	8151	8034
35°	8088	8017	7903
40°	7903	7819	7677
45°	7581	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5159	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3744	3703
85°	2985	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	2.2
10°-20°	737.9	6.4
20°-30°	1113.0	9.6
30°-40°	1326.2	11.5
40°-50°	1307.5	11.3
50°-60°	999.3	8.6
60°-70°	618.4	5.3
70°-80°	351.2	3.0
80°-90°	109.7	0.9
90°-100°	349.6	3.0
100°-110°	949.7	8.2
110°-120°	976.5	8.4
120°-130°	780.7	6.7
130°-140°	613.5	5.3
140°-150°	470.4	4.1
150°-160°	338.3	2.9
160°-170°	206.9	1.8
170°-180°	69.7	0.6
0°-30°	2108.9	18.2
0°-40°	3435.1	29.7
0°-60°	5741.8	49.6
0°-90°	6821.1	58.9
90°-120°	2275.9	19.7
90°-150°	4140.4	35.8
90°-180°	4755.0	41.1
0°-180°	11576.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2727	2727	2727	2727	2727	
5°	2742	2712	2720	2711	2706	260
15°	2638	2611	2622	2612	2608	744
25°	2446	2416	2429	2403	2401	1125
35°	2154	2129	2135	2107	2105	1344
45°	1743	1720	1713	1682	1677	1335
55°	1142	1123	1116	1097	1092	1023
65°	613	609	616	611	611	621
75°	331	331	331	334	334	350
85°	85	89	94	94	94	98
90°	2	9	16	21	21	7
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2727.4	2727.4	2727.4	2727.4	2727.4
2.5°	2744.3	2720.5	2727.4	2721.5	2708.6
5°	2741.5	2711.7	2720.4	2710.9	2706.3
7.5°	2720.4	2691.0	2699.7	2690.3	2687.5
10°	2701.6	2674.0	2682.8	2673.3	2668.7
12.5°	2680.9	2651.5	2662.1	2650.7	2646.2
15°	2638.2	2610.6	2621.7	2612.2	2607.6
17.5°	2591.2	2561.8	2572.9	2561.9	2555.9
20°	2553.6	2526.0	2537.1	2520.7	2518.4
22.5°	2512.2	2484.7	2495.8	2473.7	2473.3
25°	2445.5	2415.7	2429.1	2403.2	2400.9
27.5°	2366.1	2338.6	2349.7	2323.3	2320.6
30°	2311.6	2284.1	2295.2	2266.9	2262.3
32.5°	2249.6	2223.9	2233.2	2204.9	2202.2
35°	2154.2	2129.0	2135.4	2107.2	2104.9
37.5°	2045.7	2022.7	2026.4	1995.4	1993.1
40°	1968.6	1945.7	1947.5	1914.6	1912.3
42.5°	1884.1	1861.1	1859.2	1826.2	1823.9
45°	1743.1	1720.1	1712.6	1681.9	1677.3
47.5°	1582.4	1559.5	1545.3	1520.3	1517.1
50°	1465.9	1442.9	1430.7	1409.4	1402.5
52.5°	1340.0	1317.0	1306.6	1287.2	1280.3
55°	1141.7	1123.3	1115.9	1097.0	1092.4
57.5°	953.3	940.9	938.7	920.4	918.5
60°	838.7	831.8	831.6	815.2	815.2
62.5°	740.9	735.9	739.5	728.7	726.8
65°	613.1	608.6	615.5	610.8	610.8
67.5°	512.1	512.1	516.4	514.5	514.5
70°	455.7	455.7	458.1	458.1	458.1
72.5°	405.0	403.2	409.2	409.2	407.4
75°	331.2	331.2	331.2	333.6	333.6
77.5°	257.9	258.4	260.3	259.8	257.9
80°	209.1	211.4	211.4	209.1	209.1
82.5°	160.2	162.5	162.6	162.1	160.2
85°	84.6	89.2	94.0	94.0	94.0
87.5°	24.9	33.6	40.9	41.8	39.9
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)