

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: P564173

Luminaire Tested: **SQ4-PR1-0U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564173
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

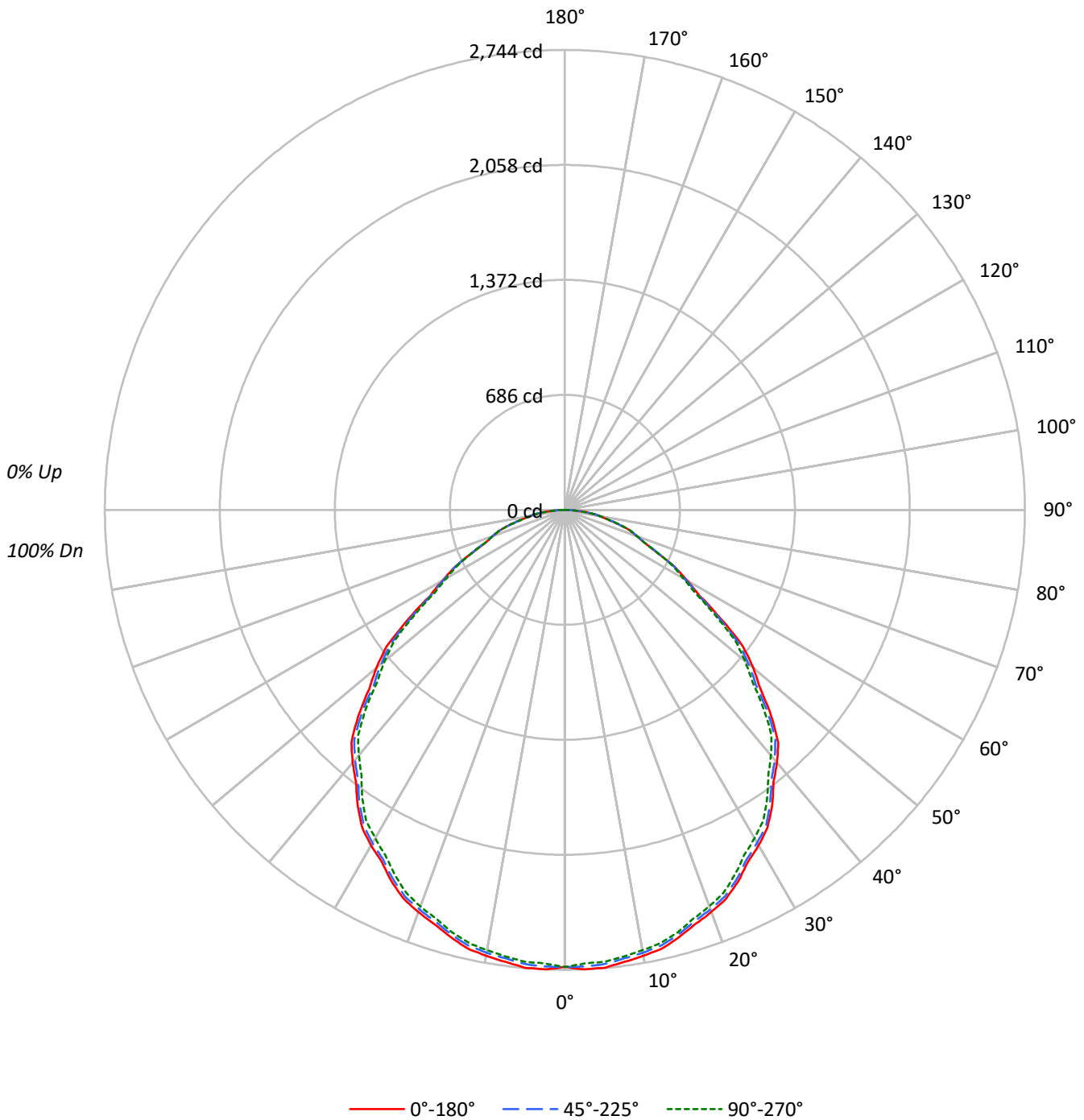
Lumens per Lamp: N/A
Luminaire Lumens: 6818.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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	3.8
10°-20°	737.9	10.8
20°-30°	1113.0	16.3
30°-40°	1326.2	19.5
40°-50°	1307.5	19.2
50°-60°	999.3	14.7
60°-70°	618.4	9.1
70°-80°	351.2	5.2
80°-90°	106.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2108.9	30.9
0°-40°	3435.1	50.4
0°-60°	5741.8	84.2
0°-90°	6818.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6818.3	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	102
90°	0	0	0	0	0	



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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°	24.4	31.8	37.6	37.5	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)