

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: P564228

Luminaire Tested: **SQ4-PR1-0U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564228
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-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

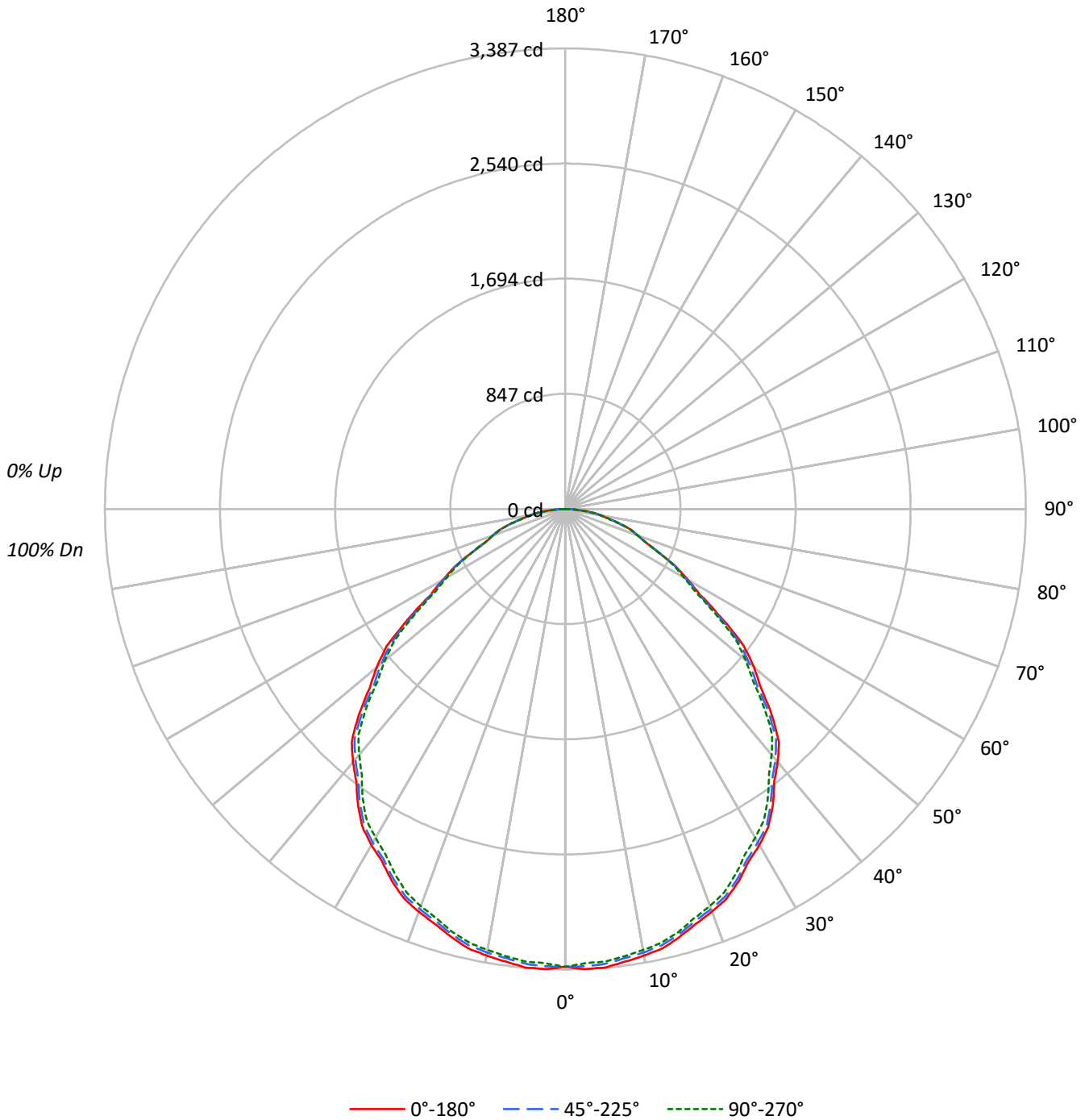
Lumens per Lamp: N/A
Luminaire Lumens: 8415.8 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15552	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14844	14631
40°	14633	14476	14214
45°	14036	13790	13506
50°	12986	12673	12424
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7626	7626
75°	7286	7286	7338
80°	6857	6934	6857
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	3.8
10°-20°	910.8	10.8
20°-30°	1373.8	16.3
30°-40°	1636.9	19.5
40°-50°	1613.8	19.2
50°-60°	1233.4	14.7
60°-70°	763.3	9.1
70°-80°	433.5	5.2
80°-90°	131.9	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°	2603.0	30.9
0°-40°	4239.9	50.4
0°-60°	7087.1	84.2
0°-90°	8415.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8415.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3384	3347	3358	3346	3340	321
15°	3256	3222	3236	3224	3219	919
25°	3018	2982	2998	2966	2963	1389
35°	2659	2628	2636	2601	2598	1660
45°	2152	2123	2114	2076	2070	1648
55°	1409	1386	1377	1354	1348	1263
65°	757	751	760	754	754	767
75°	409	409	409	412	412	432
85°	104	110	116	116	116	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3387.3	3357.9	3366.5	3359.1	3343.3
5°	3383.9	3347.0	3357.8	3346.0	3340.4
7.5°	3357.8	3321.5	3332.2	3320.6	3317.2
10°	3334.6	3300.5	3311.4	3299.6	3294.0
12.5°	3309.1	3272.8	3285.9	3271.8	3266.1
15°	3256.3	3222.3	3236.0	3224.3	3218.6
17.5°	3198.3	3162.0	3175.7	3162.2	3154.8
20°	3151.9	3117.9	3131.6	3111.2	3108.4
22.5°	3100.9	3066.8	3080.6	3053.3	3052.7
25°	3018.5	2981.7	2998.2	2966.3	2963.4
27.5°	2920.5	2886.5	2900.2	2867.7	2864.2
30°	2853.2	2819.2	2832.9	2798.0	2792.3
32.5°	2776.7	2744.9	2756.4	2721.5	2718.1
35°	2659.0	2627.8	2635.8	2600.9	2598.1
37.5°	2525.0	2496.6	2501.2	2462.9	2460.0
40°	2429.9	2401.5	2403.8	2363.1	2360.3
42.5°	2325.5	2297.1	2294.8	2254.1	2251.3
45°	2151.5	2123.2	2113.8	2076.0	2070.3
47.5°	1953.2	1924.8	1907.4	1876.5	1872.6
50°	1809.4	1781.0	1765.9	1739.6	1731.1
52.5°	1653.9	1625.6	1612.8	1588.8	1580.3
55°	1409.2	1386.5	1377.3	1354.0	1348.3
57.5°	1176.7	1161.4	1158.7	1136.0	1133.8
60°	1035.2	1026.7	1026.5	1006.2	1006.2
62.5°	914.5	908.3	912.8	899.4	897.1
65°	756.8	751.1	759.7	753.9	753.9
67.5°	632.1	632.1	637.3	635.0	635.0
70°	562.5	562.5	565.4	565.4	565.4
72.5°	499.9	497.6	505.1	505.1	502.8
75°	408.8	408.8	408.8	411.7	411.7
77.5°	318.4	318.9	321.3	320.6	318.4
80°	258.1	260.9	261.0	258.1	258.1
82.5°	197.8	200.6	200.7	200.0	197.8
85°	104.4	110.1	116.0	116.0	116.0
87.5°	30.2	39.2	46.4	46.3	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)