

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: P564212

Luminaire Tested: **SQ4-PR1-0U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564212
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

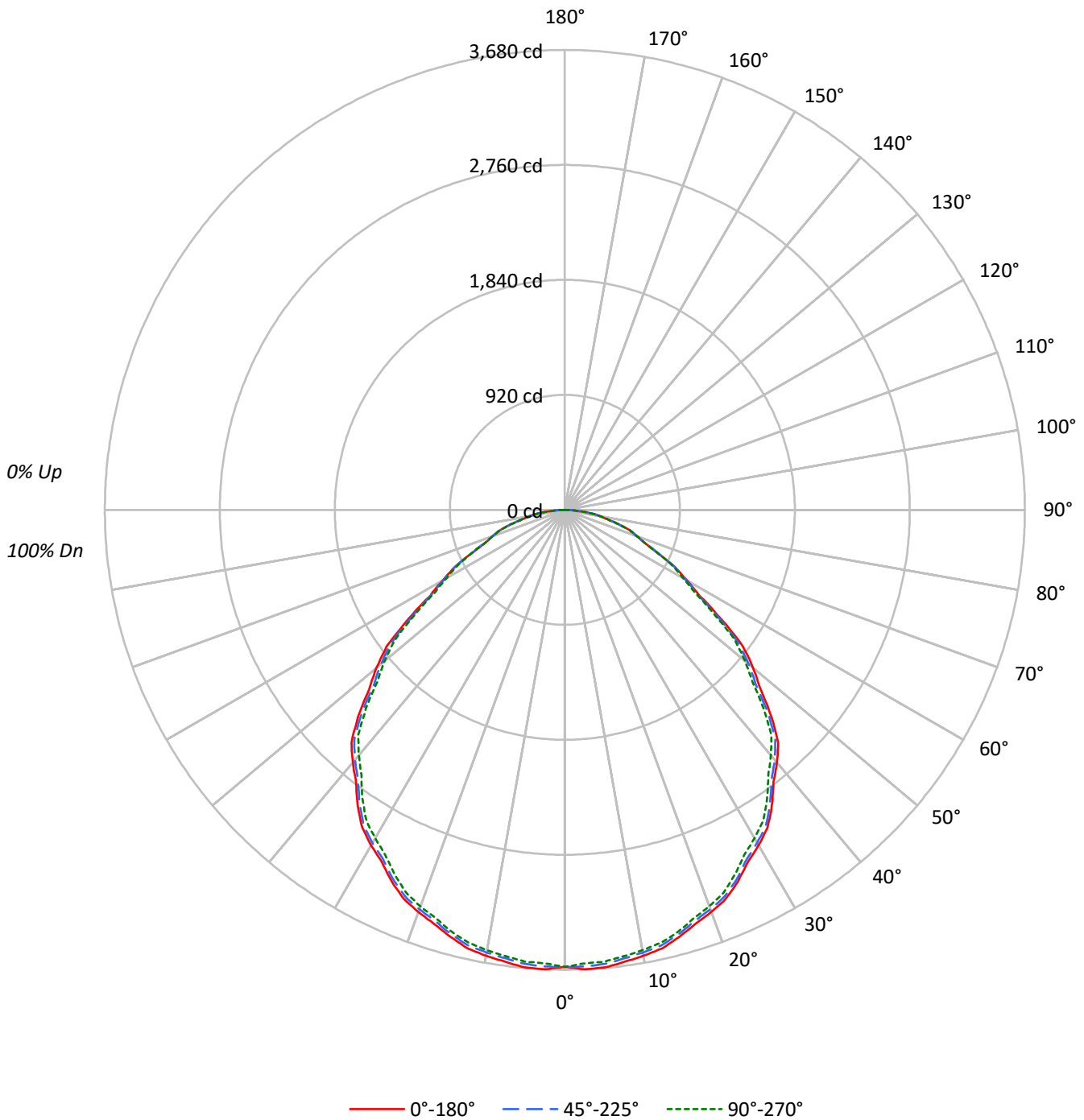
Lumens per Lamp: N/A
Luminaire Lumens: 9142.2 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	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°	16870	16870	16870
5°	17022	16891	16804
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16700	16577
25°	16691	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14672
50°	14106	13767	13496
55°	12313	12033	11780
60°	10375	10288	10084
65°	8974	9009	8940
70°	8242	8284	8284
75°	7915	7915	7973
80°	7446	7531	7446
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	3.8
10°-20°	989.5	10.8
20°-30°	1492.4	16.3
30°-40°	1778.2	19.5
40°-50°	1753.1	19.2
50°-60°	1339.8	14.7
60°-70°	829.1	9.1
70°-80°	470.9	5.2
80°-90°	143.3	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°	2827.7	30.9
0°-40°	4605.9	50.4
0°-60°	7698.9	84.2
0°-90°	9142.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9142.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3657	3657	3657	3657	3657	
5°	3676	3636	3648	3635	3629	349
15°	3537	3500	3515	3503	3496	998
25°	3279	3239	3257	3222	3219	1509
35°	2888	2855	2863	2825	2822	1803
45°	2337	2306	2296	2255	2249	1791
55°	1531	1506	1496	1471	1465	1372
65°	822	816	825	819	819	833
75°	444	444	444	447	447	469
85°	113	120	126	126	126	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3657.0	3657.0	3657.0	3657.0	3657.0
2.5°	3679.7	3647.7	3657.0	3649.1	3631.8
5°	3675.9	3635.9	3647.6	3634.9	3628.7
7.5°	3647.6	3608.2	3619.9	3607.2	3603.5
10°	3622.4	3585.4	3597.2	3584.5	3578.3
12.5°	3594.7	3555.3	3569.5	3554.2	3548.1
15°	3537.3	3500.4	3515.3	3502.6	3496.4
17.5°	3474.3	3434.9	3449.8	3435.1	3427.1
20°	3424.0	3387.0	3401.9	3379.8	3376.7
22.5°	3368.5	3331.6	3346.5	3316.8	3316.2
25°	3279.1	3239.0	3257.0	3222.3	3219.2
27.5°	3172.6	3135.6	3150.5	3115.2	3111.5
30°	3099.5	3062.6	3077.5	3039.5	3033.4
32.5°	3016.4	2981.9	2994.3	2956.4	2952.7
35°	2888.5	2854.6	2863.3	2825.4	2822.3
37.5°	2742.9	2712.1	2717.1	2675.5	2672.4
40°	2639.6	2608.8	2611.3	2567.1	2564.0
42.5°	2526.2	2495.4	2492.8	2448.7	2445.6
45°	2337.2	2306.4	2296.3	2255.2	2249.0
47.5°	2121.8	2091.0	2072.0	2038.5	2034.2
50°	1965.5	1934.7	1918.3	1889.7	1880.5
52.5°	1796.7	1765.9	1752.0	1725.9	1716.7
55°	1530.9	1506.2	1496.2	1470.9	1464.7
57.5°	1278.2	1261.6	1258.7	1234.1	1231.6
60°	1124.5	1115.3	1115.1	1093.0	1093.0
62.5°	993.5	986.7	991.6	977.0	974.6
65°	822.1	816.0	825.3	819.0	819.0
67.5°	686.7	686.7	692.4	689.8	689.8
70°	611.1	611.1	614.2	614.2	614.2
72.5°	543.0	540.6	548.7	548.7	546.2
75°	444.1	444.1	444.1	447.3	447.3
77.5°	345.9	346.5	349.0	348.3	345.9
80°	280.3	283.4	283.5	280.3	280.3
82.5°	214.8	217.9	218.0	217.3	214.8
85°	113.4	119.6	126.0	126.0	126.0
87.5°	32.8	42.6	50.4	50.3	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)