

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: P564216

Luminaire Tested: **SQ4-PR1-0U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564216
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

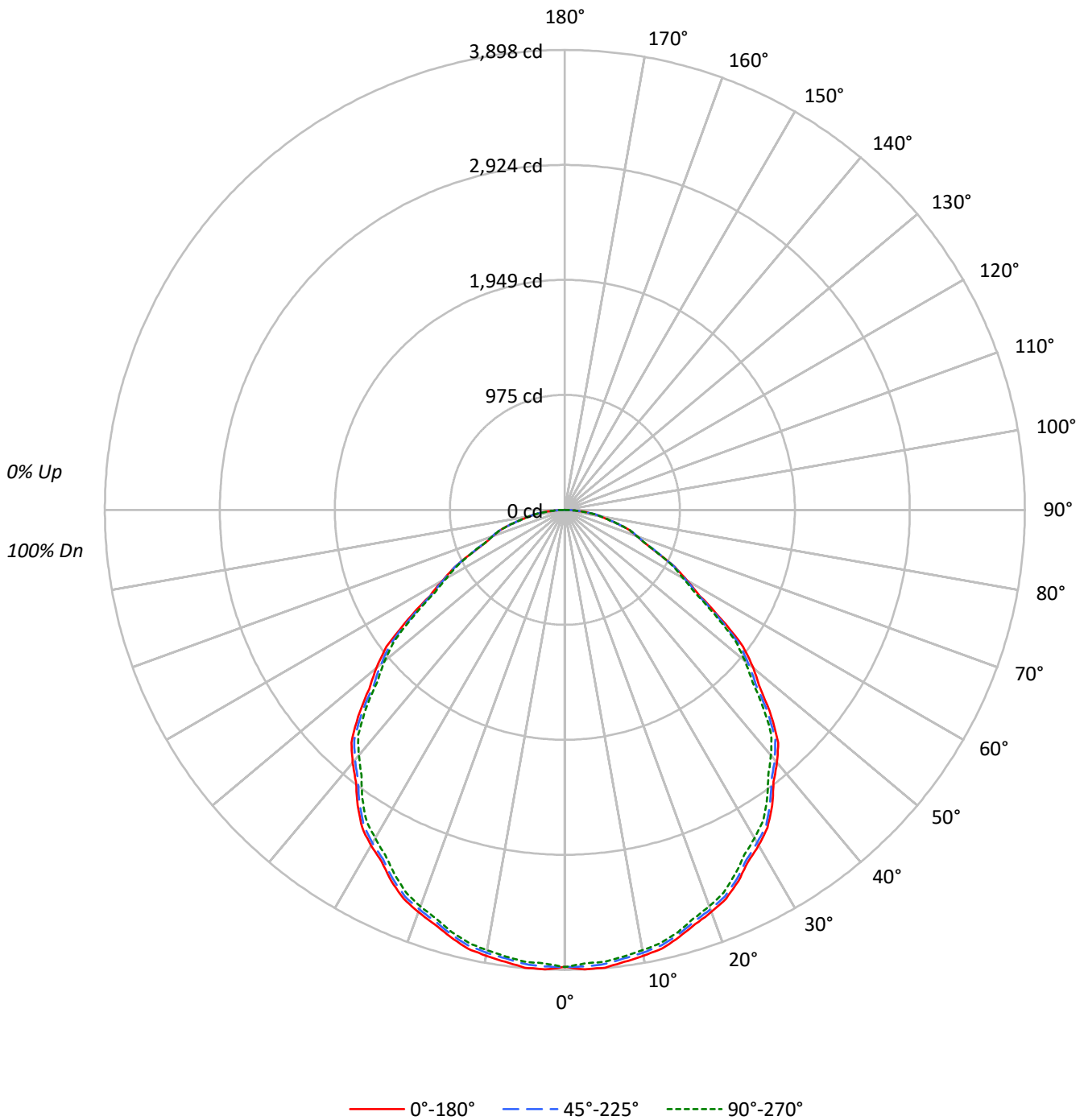
Lumens per Lamp: N/A
Luminaire Lumens: 9685.6 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17787	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17234	17083	16839
40°	16840	16660	16358
45°	16155	15871	15545
50°	14945	14585	14298
55°	13044	12748	12481
60°	10992	10900	10684
65°	9507	9543	9471
70°	8732	8777	8777
75°	8386	8386	8447
80°	7890	7978	7890
85°	6357	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	3.8
10°-20°	1048.3	10.8
20°-30°	1581.1	16.3
30°-40°	1883.9	19.5
40°-50°	1857.4	19.2
50°-60°	1419.5	14.7
60°-70°	878.4	9.1
70°-80°	498.9	5.2
80°-90°	151.8	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°	2995.8	30.9
0°-40°	4879.7	50.4
0°-60°	8156.5	84.2
0°-90°	9685.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9685.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3874	3874	3874	3874	3874	
5°	3894	3852	3864	3851	3844	369
15°	3748	3708	3724	3711	3704	1058
25°	3474	3432	3451	3414	3411	1599
35°	3060	3024	3034	2993	2990	1910
45°	2476	2444	2433	2389	2383	1897
55°	1622	1596	1585	1558	1552	1453
65°	871	864	874	868	868	882
75°	470	470	470	474	474	497
85°	120	127	134	134	134	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	3898.5	3864.5	3874.4	3866.0	3847.7
5°	3894.5	3852.0	3864.4	3850.9	3844.4
7.5°	3864.4	3822.7	3835.1	3821.6	3817.7
10°	3837.7	3798.6	3811.0	3797.5	3791.0
12.5°	3808.4	3766.6	3781.7	3765.5	3759.0
15°	3747.6	3708.5	3724.3	3710.8	3704.2
17.5°	3680.9	3639.1	3654.8	3639.3	3630.8
20°	3627.5	3588.3	3604.1	3580.7	3577.4
22.5°	3568.7	3529.6	3545.4	3514.0	3513.4
25°	3474.0	3431.6	3450.6	3413.8	3410.6
27.5°	3361.2	3322.0	3337.8	3300.4	3296.4
30°	3283.8	3244.6	3260.4	3220.2	3213.7
32.5°	3195.7	3159.1	3172.3	3132.2	3128.2
35°	3060.2	3024.3	3033.5	2993.3	2990.1
37.5°	2906.0	2873.4	2878.6	2834.5	2831.2
40°	2796.5	2763.9	2766.5	2719.7	2716.4
42.5°	2676.4	2643.8	2641.0	2594.2	2591.0
45°	2476.2	2443.5	2432.8	2389.3	2382.7
47.5°	2247.9	2215.3	2195.2	2159.7	2155.1
50°	2082.4	2049.8	2032.3	2002.1	1992.3
52.5°	1903.5	1870.9	1856.1	1828.5	1818.7
55°	1621.9	1595.8	1585.1	1558.3	1551.8
57.5°	1354.2	1336.6	1333.5	1307.4	1304.8
60°	1191.4	1181.6	1181.4	1158.0	1158.0
62.5°	1052.5	1045.4	1050.5	1035.1	1032.5
65°	871.0	864.5	874.3	867.7	867.7
67.5°	727.5	727.5	733.5	730.8	730.8
70°	647.4	647.4	650.7	650.7	650.7
72.5°	575.3	572.7	581.3	581.3	578.7
75°	470.5	470.5	470.5	473.9	473.9
77.5°	366.4	367.1	369.8	369.0	366.4
80°	297.0	300.3	300.3	297.0	297.0
82.5°	227.6	230.9	230.9	230.2	227.6
85°	120.1	126.7	133.5	133.5	133.5
87.5°	34.7	45.1	53.4	53.3	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)