

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: P563529

Luminaire Tested: **SQ4-PP3-0U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563529
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

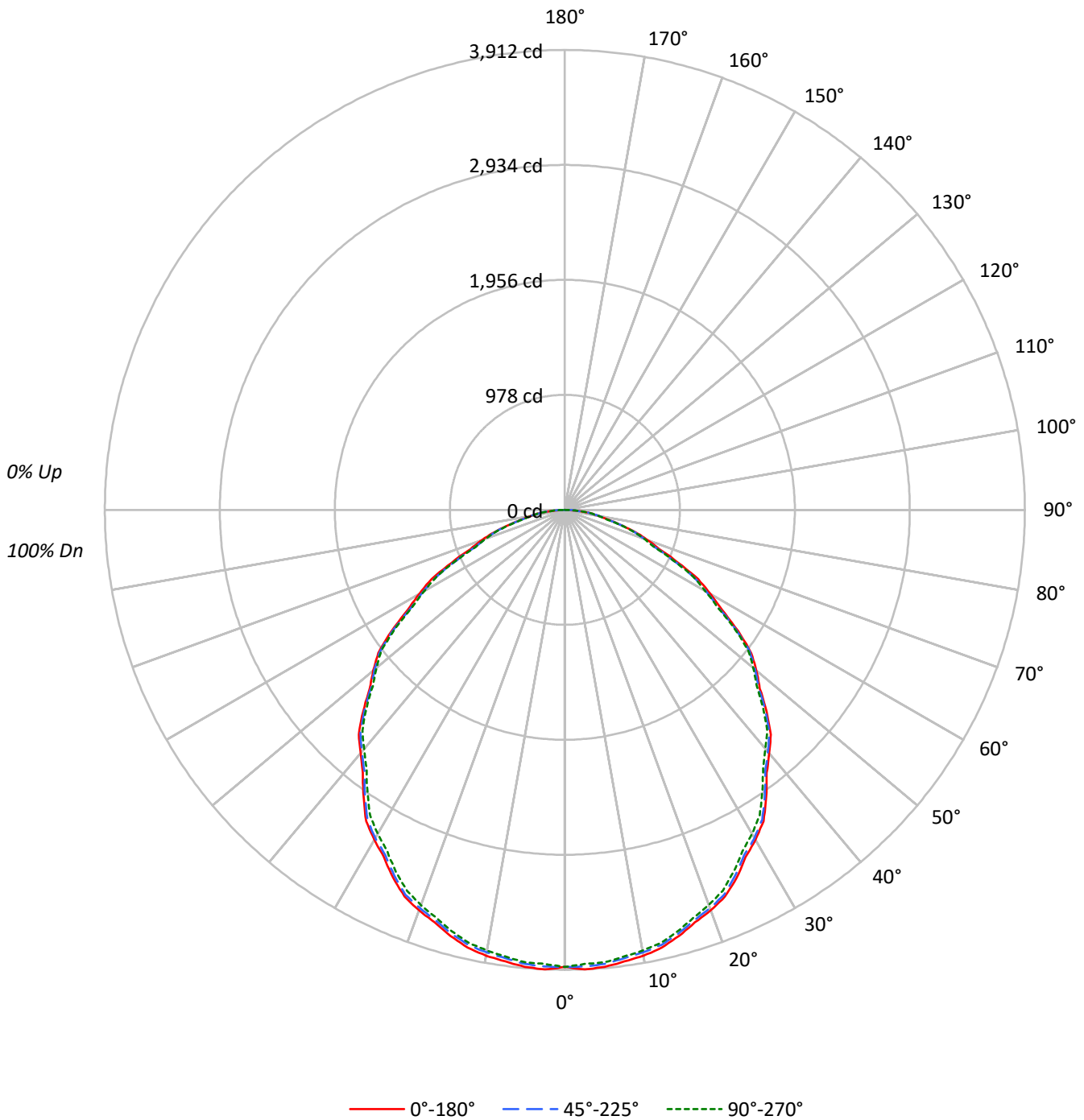
Lumens per Lamp: N/A
Luminaire Lumens: 9951.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11815
20°	11866	11799	11710
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9647	9519	9446
60°	8781	8530	8488
65°	7736	7414	7389
70°	6679	6404	6404
75°	5750	5668	5587
80°	5069	5129	5009
85°	3966	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	3.7
10°-20°	1049.7	10.5
20°-30°	1572.4	15.8
30°-40°	1844.3	18.5
40°-50°	1850.1	18.6
50°-60°	1578.3	15.9
60°-70°	1029.3	10.3
70°-80°	516.4	5.2
80°-90°	142.9	1.4
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°	2989.8	30.0
0°-40°	4834.1	48.6
0°-60°	8262.4	83.0
0°-90°	9951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3888	3888	3888	3888	3888	
5°	3902	3865	3878	3864	3864	371
15°	3752	3715	3731	3717	3711	1058
25°	3455	3415	3431	3401	3397	1589
35°	2985	2955	2964	2930	2927	1865
45°	2426	2410	2409	2385	2385	1868
55°	1799	1792	1775	1765	1762	1599
65°	1063	1043	1019	1012	1015	1061
75°	484	484	477	474	470	525
85°	112	122	123	123	123	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3887.9	3887.9	3887.9	3887.9	3887.9
2.5°	3912.5	3880.5	3887.9	3882.1	3866.1
5°	3901.6	3864.9	3877.7	3864.1	3864.1
7.5°	3875.0	3835.0	3847.7	3834.1	3833.4
10°	3850.5	3810.5	3823.2	3809.5	3806.2
12.5°	3815.0	3775.0	3790.5	3774.1	3773.5
15°	3751.6	3715.0	3731.2	3717.4	3710.8
17.5°	3680.1	3640.1	3659.6	3640.5	3637.8
20°	3625.6	3585.6	3605.1	3577.9	3577.9
22.5°	3560.1	3520.2	3542.4	3507.0	3507.0
25°	3455.2	3415.2	3431.3	3400.6	3397.3
27.5°	3330.5	3291.2	3308.0	3273.2	3272.6
30°	3240.5	3203.9	3223.5	3185.9	3182.6
32.5°	3142.4	3108.4	3122.6	3085.1	3081.7
35°	2985.0	2955.0	2964.5	2930.4	2927.0
37.5°	2819.4	2788.7	2799.6	2770.3	2768.9
40°	2702.1	2682.2	2685.1	2661.1	2654.4
42.5°	2593.1	2570.4	2573.3	2549.5	2548.1
45°	2426.1	2409.5	2409.1	2385.2	2385.2
47.5°	2248.9	2236.3	2232.6	2212.8	2212.1
50°	2126.3	2116.3	2112.6	2095.5	2092.2
52.5°	1998.2	1993.5	1981.8	1967.5	1966.8
55°	1799.2	1792.5	1775.3	1765.0	1761.7
57.5°	1583.1	1569.8	1550.4	1535.5	1538.1
60°	1427.7	1414.4	1386.8	1380.0	1380.0
62.5°	1277.8	1261.8	1234.2	1224.8	1230.1
65°	1063.1	1043.1	1018.8	1012.1	1015.4
67.5°	868.2	850.2	823.9	823.9	821.2
70°	742.8	732.8	712.2	712.2	712.2
72.5°	631.1	626.4	611.3	611.2	608.6
75°	483.9	483.9	477.0	473.6	470.2
77.5°	362.6	363.9	360.5	357.0	351.0
80°	286.2	292.9	289.6	286.2	282.8
82.5°	215.4	222.0	221.5	215.3	214.7
85°	112.4	122.4	122.7	122.7	122.7
87.5°	30.0	40.6	43.6	43.7	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)