

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: P563533

Luminaire Tested: **SQ4-PP3-0U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563533
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

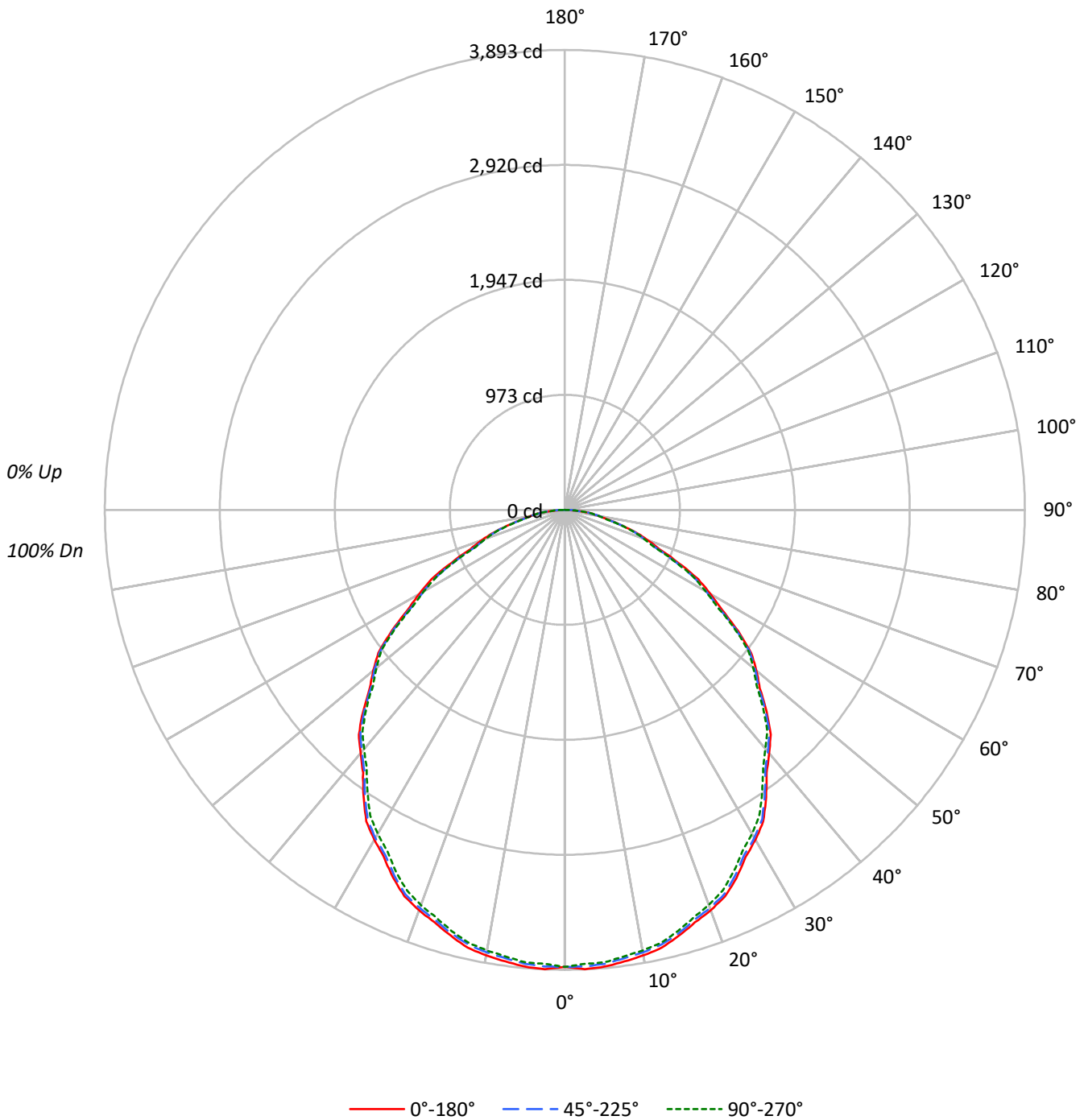
Lumens per Lamp: N/A
Luminaire Lumens: 9900.5 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	11896	11896	11896
5°	11984	11910	11869
10°	11963	11879	11826
15°	11884	11820	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11244
35°	11150	11074	10933
40°	10793	10725	10603
45°	10498	10425	10321
50°	10122	10056	9959
55°	9598	9471	9398
60°	8737	8487	8445
65°	7697	7377	7352
70°	6646	6371	6371
75°	5720	5639	5559
80°	5044	5104	4984
85°	3949	4305	4305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	3.7
10°-20°	1044.4	10.5
20°-30°	1564.4	15.8
30°-40°	1834.9	18.5
40°-50°	1840.7	18.6
50°-60°	1570.2	15.9
60°-70°	1024.1	10.3
70°-80°	513.8	5.2
80°-90°	142.2	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°	2974.6	30.0
0°-40°	4809.5	48.6
0°-60°	8220.4	83.0
0°-90°	9900.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9900.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3882	3845	3858	3844	3844	369
15°	3733	3696	3712	3698	3692	1053
25°	3438	3398	3414	3383	3380	1581
35°	2970	2940	2950	2916	2912	1855
45°	2414	2397	2397	2373	2373	1859
55°	1790	1783	1766	1756	1753	1591
65°	1058	1038	1014	1007	1010	1056
75°	481	481	475	471	468	522
85°	112	122	122	122	122	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3868.2	3868.2	3868.2	3868.2	3868.2
2.5°	3892.6	3860.8	3868.2	3862.4	3846.5
5°	3881.8	3845.3	3858.0	3844.5	3844.5
7.5°	3855.3	3815.5	3828.2	3814.6	3814.0
10°	3830.9	3791.1	3803.8	3790.2	3786.8
12.5°	3795.7	3755.9	3771.2	3755.0	3754.3
15°	3732.6	3696.1	3712.3	3698.5	3691.9
17.5°	3661.4	3621.6	3641.1	3622.0	3619.4
20°	3607.2	3567.4	3586.8	3559.7	3559.7
22.5°	3542.1	3502.3	3524.4	3489.2	3489.2
25°	3437.7	3397.9	3413.9	3383.3	3380.0
27.5°	3313.6	3274.5	3291.2	3256.6	3255.9
30°	3224.1	3187.6	3207.1	3169.8	3166.4
32.5°	3126.4	3092.6	3106.8	3069.4	3066.1
35°	2969.8	2940.0	2949.5	2915.5	2912.2
37.5°	2805.0	2774.5	2785.4	2756.2	2754.9
40°	2688.4	2668.5	2671.5	2647.6	2641.0
42.5°	2579.9	2557.4	2560.3	2536.5	2535.2
45°	2413.8	2397.2	2396.9	2373.1	2373.1
47.5°	2237.5	2224.9	2221.3	2201.6	2200.9
50°	2115.5	2105.5	2101.9	2084.9	2081.6
52.5°	1988.0	1983.4	1971.7	1957.5	1956.8
55°	1790.0	1783.4	1766.3	1756.0	1752.7
57.5°	1575.1	1561.8	1542.5	1527.7	1530.3
60°	1420.5	1407.2	1379.8	1373.0	1373.0
62.5°	1271.3	1255.4	1227.9	1218.6	1223.9
65°	1057.7	1037.9	1013.7	1007.0	1010.3
67.5°	863.8	845.9	819.7	819.7	817.0
70°	739.1	729.1	708.5	708.5	708.5
72.5°	627.9	623.2	608.2	608.1	605.5
75°	481.4	481.4	474.6	471.2	467.8
77.5°	360.7	362.0	358.7	355.2	349.2
80°	284.8	291.4	288.2	284.7	281.4
82.5°	214.3	220.9	220.4	214.2	213.6
85°	111.9	121.8	122.0	122.0	122.0
87.5°	29.8	40.4	43.4	43.5	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)