

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: P563557

Luminaire Tested: **SQ4-PP3-0U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563557
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-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

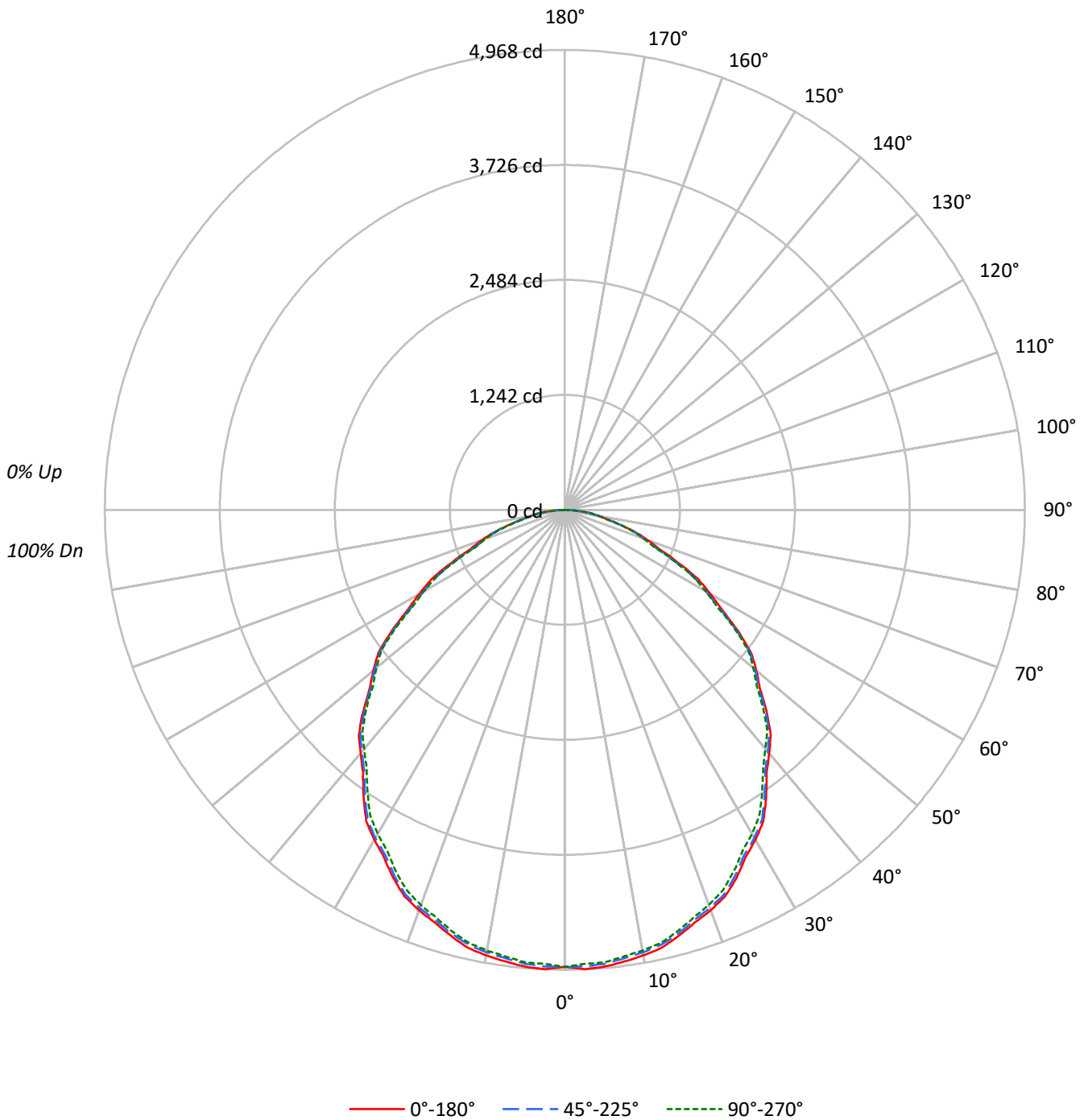
Lumens per Lamp: N/A
Luminaire Lumens: 12634.3 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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°	15181	15181	15181
5°	15293	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13171
50°	12916	12833	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8480	8130	8130
75°	7299	7197	7094
80°	6436	6512	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	3.7
10°-20°	1332.8	10.5
20°-30°	1996.4	15.8
30°-40°	2341.6	18.5
40°-50°	2348.9	18.6
50°-60°	2003.8	15.9
60°-70°	1306.8	10.3
70°-80°	655.6	5.2
80°-90°	181.5	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°	3796.0	30.0
0°-40°	6137.6	48.6
0°-60°	10490.4	83.0
0°-90°	12634.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12634.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4954	4907	4923	4906	4906	470
15°	4763	4717	4737	4720	4711	1344
25°	4387	4336	4357	4318	4313	2017
35°	3790	3752	3764	3721	3716	2367
45°	3080	3059	3059	3028	3028	2372
55°	2284	2276	2254	2241	2237	2030
65°	1350	1324	1294	1285	1289	1347
75°	614	614	606	601	597	666
85°	143	156	156	156	156	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4936.3	4936.3	4936.3	4936.3	4936.3
2.5°	4967.5	4926.9	4936.3	4929.0	4908.7
5°	4953.7	4907.1	4923.4	4906.1	4906.1
7.5°	4919.9	4869.1	4885.3	4868.0	4867.1
10°	4888.8	4838.0	4854.1	4836.7	4832.5
12.5°	4843.8	4793.0	4812.6	4791.8	4791.0
15°	4763.3	4716.8	4737.3	4719.8	4711.4
17.5°	4672.4	4621.7	4646.5	4622.2	4618.8
20°	4603.2	4552.5	4577.3	4542.7	4542.7
22.5°	4520.2	4469.4	4497.7	4452.7	4452.7
25°	4386.9	4336.1	4356.6	4317.6	4313.4
27.5°	4228.6	4178.6	4200.0	4155.9	4155.0
30°	4114.3	4067.8	4092.7	4045.0	4040.8
32.5°	3989.7	3946.6	3964.7	3917.0	3912.7
35°	3789.9	3751.8	3763.9	3720.6	3716.3
37.5°	3579.6	3540.7	3554.5	3517.3	3515.6
40°	3430.8	3405.4	3409.2	3378.7	3370.2
42.5°	3292.3	3263.6	3267.2	3236.9	3235.2
45°	3080.4	3059.2	3058.7	3028.4	3028.4
47.5°	2855.4	2839.3	2834.6	2809.5	2808.7
50°	2699.6	2686.9	2682.3	2660.6	2656.4
52.5°	2537.0	2531.0	2516.2	2498.0	2497.2
55°	2284.3	2275.8	2254.0	2240.9	2236.7
57.5°	2010.0	1993.1	1968.5	1949.5	1952.9
60°	1812.7	1795.8	1760.8	1752.2	1752.2
62.5°	1622.4	1602.1	1567.0	1555.0	1561.8
65°	1349.8	1324.4	1293.6	1285.0	1289.2
67.5°	1102.4	1079.5	1046.1	1046.0	1042.6
70°	943.1	930.5	904.2	904.2	904.2
72.5°	801.2	795.3	776.1	776.1	772.7
75°	614.3	614.3	605.7	601.3	597.0
77.5°	460.3	462.0	457.7	453.2	445.6
80°	363.4	371.9	367.7	363.3	359.1
82.5°	273.4	281.9	281.2	273.4	272.6
85°	142.8	155.5	155.7	155.7	155.7
87.5°	38.1	51.6	55.4	55.5	58.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)