

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: P564158

Luminaire Tested: **SQ4-PR1-0U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564158
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-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

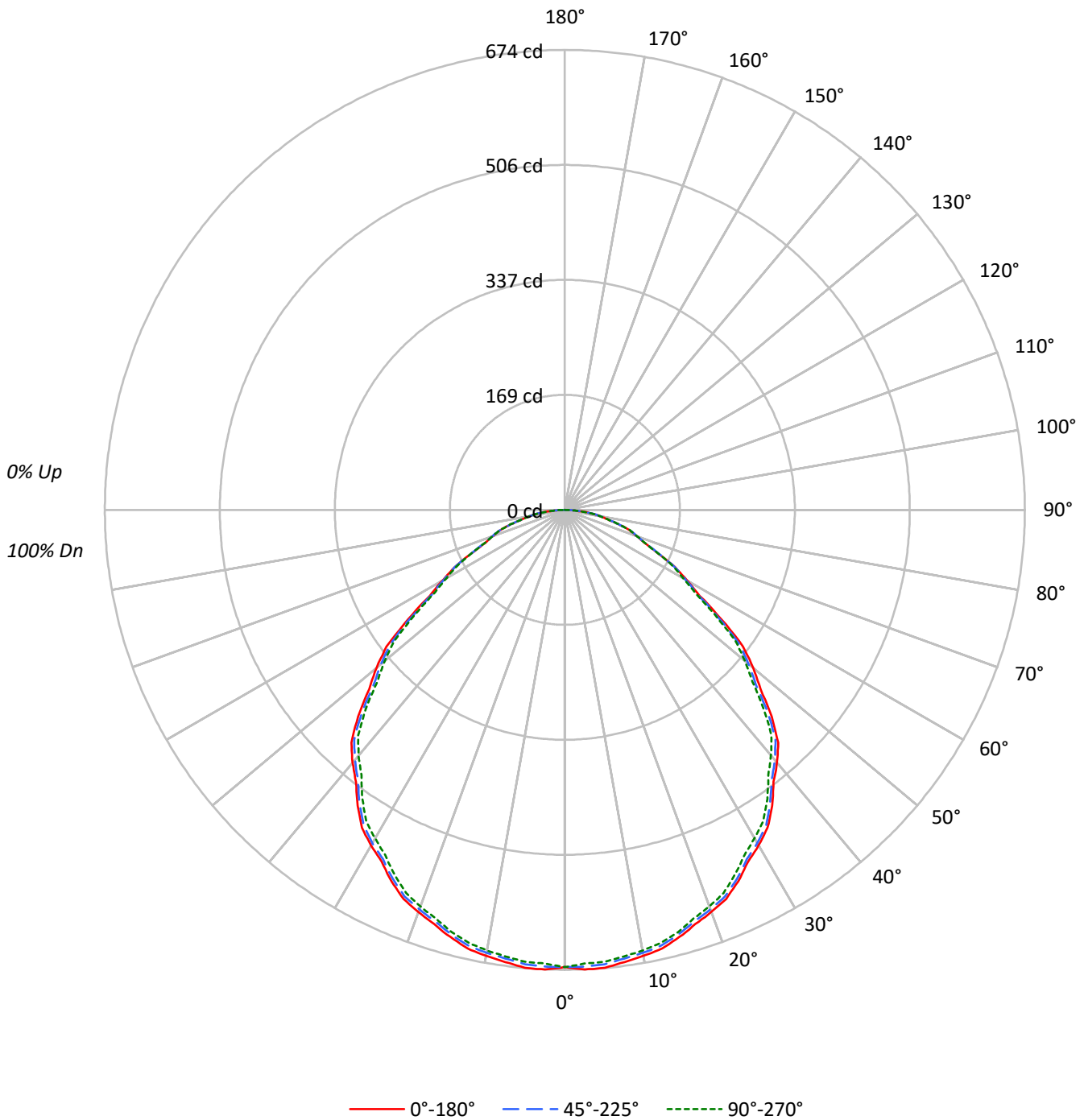
Lumens per Lamp: N/A
Luminaire Lumens: 1675.2 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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	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°	6182	6182	6182
5°	6239	6190	6158
10°	6219	6175	6143
15°	6191	6152	6120
20°	6160	6121	6075
25°	6116	6075	6005
30°	6050	6008	5921
35°	5962	5910	5825
40°	5826	5763	5658
45°	5588	5491	5377
50°	5170	5045	4946
55°	4512	4411	4317
60°	3803	3770	3696
65°	3288	3301	3277
70°	3021	3037	3037
75°	2902	2902	2923
80°	2731	2758	2731
85°	2202	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.8
10°-20°	181.3	10.8
20°-30°	273.5	16.3
30°-40°	325.8	19.5
40°-50°	321.2	19.2
50°-60°	245.5	14.7
60°-70°	151.9	9.1
70°-80°	86.3	5.2
80°-90°	26.2	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°	518.1	30.9
0°-40°	844.0	50.4
0°-60°	1410.7	84.2
0°-90°	1675.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	674	666	668	666	665	64
15°	648	641	644	642	641	183
25°	601	594	597	590	590	276
35°	529	523	525	518	517	330
45°	428	423	421	413	412	328
55°	280	276	274	270	268	251
65°	151	150	151	150	150	153
75°	81	81	81	82	82	86
85°	21	22	23	23	23	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	674.3	668.4	670.1	668.7	665.5
5°	673.6	666.2	668.4	666.0	664.9
7.5°	668.4	661.2	663.3	661.0	660.3
10°	663.8	657.0	659.1	656.8	655.7
12.5°	658.7	651.5	654.1	651.3	650.1
15°	648.2	641.4	644.1	641.8	640.7
17.5°	636.6	629.4	632.1	629.4	628.0
20°	627.4	620.6	623.4	619.3	618.7
22.5°	617.2	610.5	613.2	607.8	607.7
25°	600.8	593.5	596.8	590.4	589.9
27.5°	581.3	574.6	577.3	570.8	570.1
30°	567.9	561.2	563.9	557.0	555.8
32.5°	552.7	546.4	548.7	541.7	541.1
35°	529.3	523.1	524.7	517.7	517.2
37.5°	502.6	497.0	497.9	490.2	489.7
40°	483.7	478.0	478.5	470.4	469.8
42.5°	462.9	457.3	456.8	448.7	448.1
45°	428.3	422.6	420.8	413.2	412.1
47.5°	388.8	383.1	379.7	373.5	372.7
50°	360.2	354.5	351.5	346.3	344.6
52.5°	329.2	323.6	321.0	316.3	314.6
55°	280.5	276.0	274.2	269.5	268.4
57.5°	234.2	231.2	230.6	226.1	225.7
60°	206.1	204.4	204.3	200.3	200.3
62.5°	182.0	180.8	181.7	179.0	178.6
65°	150.6	149.5	151.2	150.1	150.1
67.5°	125.8	125.8	126.9	126.4	126.4
70°	112.0	112.0	112.6	112.6	112.6
72.5°	99.5	99.1	100.5	100.5	100.1
75°	81.4	81.4	81.4	82.0	82.0
77.5°	63.4	63.5	64.0	63.8	63.4
80°	51.4	51.9	51.9	51.4	51.4
82.5°	39.4	39.9	39.9	39.8	39.4
85°	20.8	21.9	23.1	23.1	23.1
87.5°	6.0	7.8	9.2	9.2	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)