

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: P564826

Luminaire Tested: **SQ4-PW1-0U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564826
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

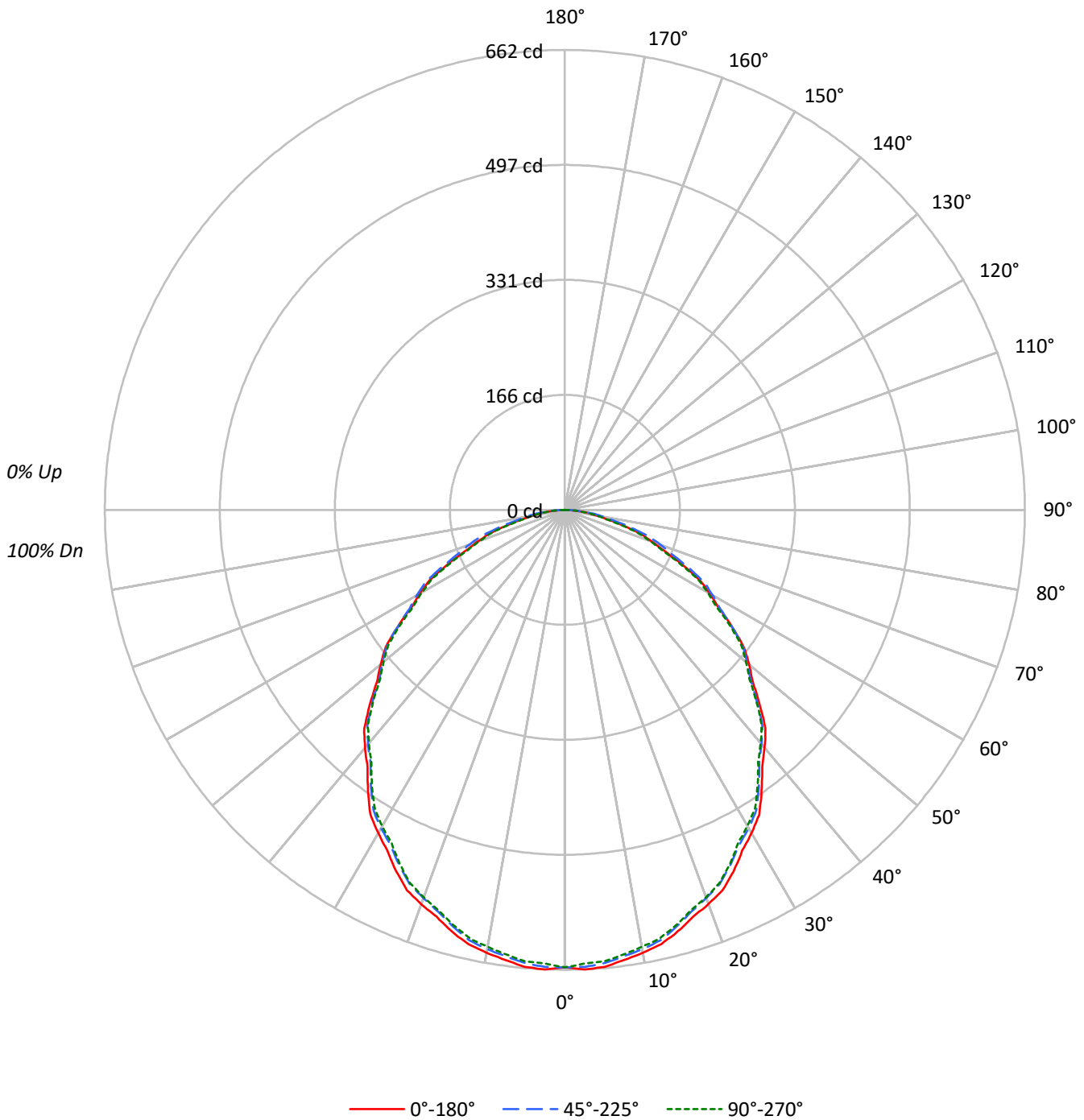
Lumens per Lamp: N/A
Luminaire Lumens: 1675.3 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5846	5740	5722
30°	5723	5637	5599
35°	5561	5482	5449
40°	5387	5303	5282
45°	5177	5110	5086
50°	4963	4922	4887
55°	4731	4731	4657
60°	4443	4528	4368
65°	4065	4268	3965
70°	3582	3928	3491
75°	3062	3515	2977
80°	2375	2959	2407
85°	1535	2276	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.7
10°-20°	175.0	10.4
20°-30°	259.7	15.5
30°-40°	303.8	18.1
40°-50°	302.5	18.1
50°-60°	261.2	15.6
60°-70°	188.0	11.2
70°-80°	98.6	5.9
80°-90°	24.4	1.5
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°	496.7	29.6
0°-40°	800.5	47.8
0°-60°	1364.2	81.4
0°-90°	1675.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	660	653	655	653	652	63
15°	628	620	621	620	619	177
25°	574	565	564	560	562	264
35°	494	487	487	482	484	309
45°	397	393	392	390	390	306
55°	294	294	294	290	290	262
65°	186	192	196	188	182	185
75°	86	94	99	92	84	92
85°	14	19	22	20	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.4	658.4	658.4	658.4	658.4
2.5°	662.2	656.7	658.4	657.0	653.8
5°	660.2	652.8	655.0	653.2	652.1
7.5°	653.5	646.7	648.2	646.4	645.7
10°	647.4	640.6	642.2	639.9	638.7
12.5°	640.5	633.2	634.8	632.4	631.8
15°	628.3	620.3	621.3	620.1	619.0
17.5°	614.1	606.1	606.2	604.4	604.1
20°	603.9	595.4	594.6	592.3	593.5
22.5°	592.8	583.8	583.0	579.8	581.4
25°	574.3	564.7	563.9	560.4	562.1
27.5°	553.0	543.5	543.5	538.6	540.4
30°	537.2	528.1	529.1	523.3	525.6
32.5°	520.5	512.3	512.8	507.1	509.4
35°	493.7	486.9	486.7	482.1	483.8
37.5°	466.3	460.3	459.3	456.7	457.1
40°	447.3	442.2	440.3	438.6	438.6
42.5°	427.3	422.7	420.8	419.5	419.1
45°	396.8	393.4	391.6	390.4	389.8
47.5°	366.6	363.5	361.9	361.1	360.5
50°	345.8	343.5	342.9	341.1	340.5
52.5°	324.9	323.5	322.9	320.7	320.1
55°	294.1	293.6	294.1	290.1	289.5
57.5°	262.1	263.0	264.9	259.4	258.0
60°	240.8	243.0	245.4	239.0	236.7
62.5°	218.9	222.6	225.9	218.5	215.3
65°	186.2	191.9	195.5	187.8	181.6
67.5°	154.7	161.7	166.0	157.8	150.7
70°	132.8	140.8	145.6	137.3	129.4
72.5°	113.8	122.7	126.6	118.7	110.8
75°	85.9	93.8	98.6	92.0	83.5
77.5°	60.9	68.4	72.4	66.7	59.6
80°	44.7	52.6	55.7	50.9	45.3
82.5°	31.7	38.3	40.4	37.5	33.6
85°	14.5	19.0	21.5	20.3	19.1
87.5°	3.7	6.9	8.8	8.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)