

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: P564830

Luminaire Tested: **SQ4-PW1-0U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564830
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

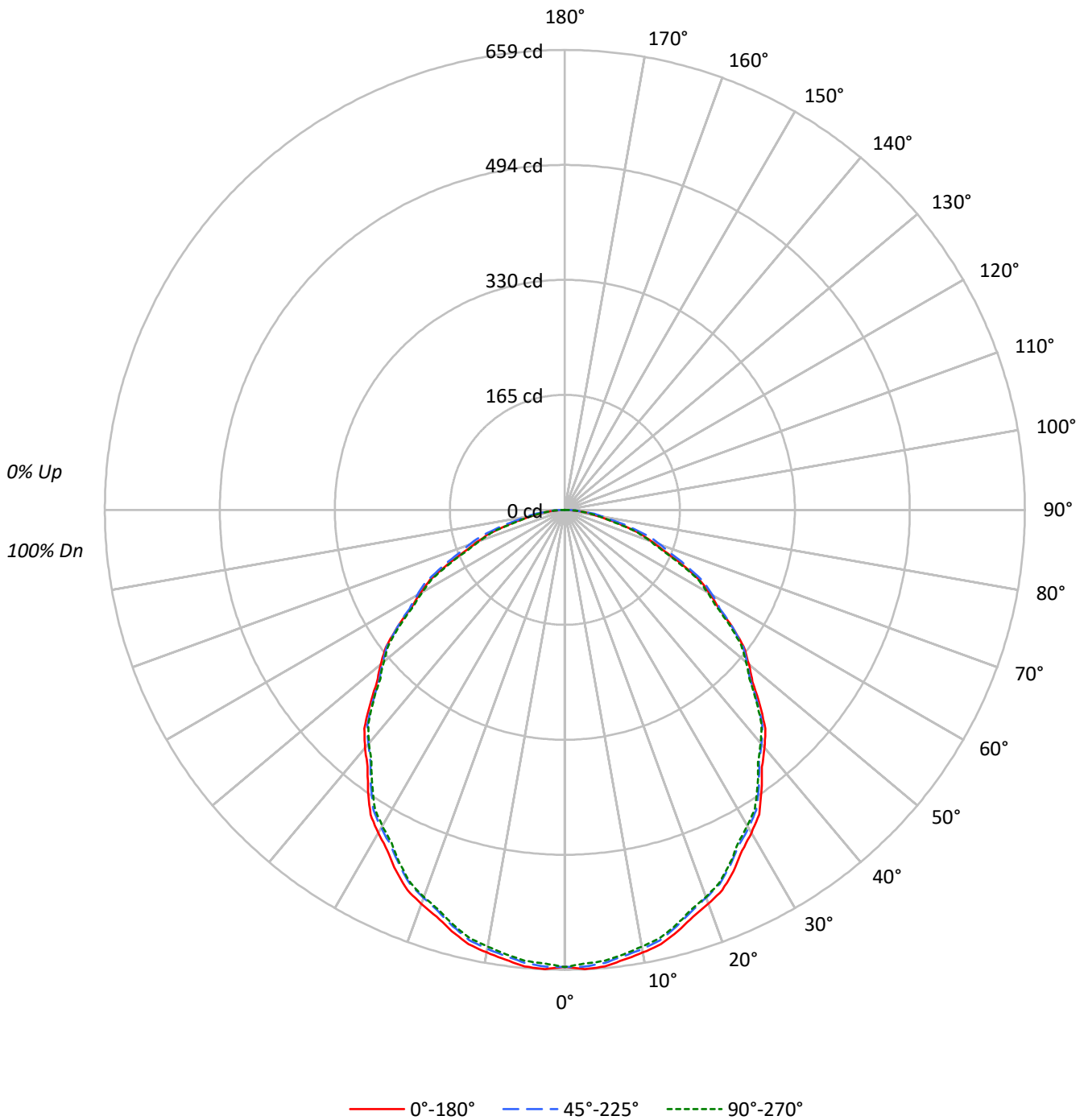
Lumens per Lamp: N/A
Luminaire Lumens: 1666.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6044	6044	6044
5°	6083	6035	6009
10°	6034	5986	5954
15°	5971	5905	5883
20°	5899	5809	5798
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5455	5422
40°	5360	5276	5256
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4419	4504	4346
65°	4045	4246	3945
70°	3566	3909	3472
75°	3044	3497	2962
80°	2359	2943	2391
85°	1524	2265	2011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	3.7
10°-20°	174.2	10.4
20°-30°	258.3	15.5
30°-40°	302.3	18.1
40°-50°	300.9	18.1
50°-60°	259.9	15.6
60°-70°	187.1	11.2
70°-80°	98.1	5.9
80°-90°	24.3	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°	494.2	29.7
0°-40°	796.5	47.8
0°-60°	1357.3	81.4
0°-90°	1666.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	657	650	652	650	649	62
15°	625	617	618	617	616	176
25°	571	562	561	558	559	263
35°	491	484	484	480	481	307
45°	395	391	390	388	388	305
55°	293	292	293	289	288	261
65°	185	191	194	187	181	184
75°	85	93	98	92	83	92
85°	14	19	21	20	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.1	655.1	655.1	655.1	655.1
2.5°	658.8	653.4	655.1	653.6	650.5
5°	656.8	649.5	651.6	649.9	648.8
7.5°	650.1	643.4	644.9	643.1	642.4
10°	644.1	637.4	638.9	636.6	635.5
12.5°	637.2	630.0	631.6	629.2	628.6
15°	625.1	617.2	618.2	617.0	615.9
17.5°	611.0	603.0	603.2	601.3	601.1
20°	600.8	592.4	591.6	589.3	590.5
22.5°	589.8	580.9	580.1	576.9	578.5
25°	571.4	561.8	561.0	557.6	559.3
27.5°	550.2	540.7	540.7	535.9	537.7
30°	534.5	525.4	526.4	520.7	522.9
32.5°	517.9	509.7	510.2	504.5	506.8
35°	491.2	484.4	484.3	479.7	481.4
37.5°	463.9	458.0	457.0	454.4	454.8
40°	445.0	439.9	438.1	436.4	436.4
42.5°	425.2	420.5	418.7	417.4	417.0
45°	394.8	391.4	389.6	388.4	387.9
47.5°	364.8	361.6	360.0	359.2	358.7
50°	344.0	341.7	341.1	339.4	338.8
52.5°	323.2	321.9	321.3	319.1	318.5
55°	292.6	292.1	292.6	288.6	288.0
57.5°	260.8	261.7	263.5	258.1	256.7
60°	239.5	241.8	244.1	237.7	235.5
62.5°	217.8	221.4	224.8	217.4	214.3
65°	185.3	190.9	194.5	186.9	180.7
67.5°	153.9	160.9	165.2	157.0	150.0
70°	132.2	140.1	144.9	136.6	128.7
72.5°	113.2	122.0	125.9	118.1	110.2
75°	85.4	93.3	98.1	91.6	83.1
77.5°	60.6	68.1	72.0	66.3	59.3
80°	44.4	52.3	55.4	50.7	45.0
82.5°	31.5	38.1	40.2	37.3	33.5
85°	14.4	18.9	21.4	20.2	19.0
87.5°	3.7	6.9	8.8	8.8	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)