

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: P564817

Luminaire Tested: **SQ4-PW1-0U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564817
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-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

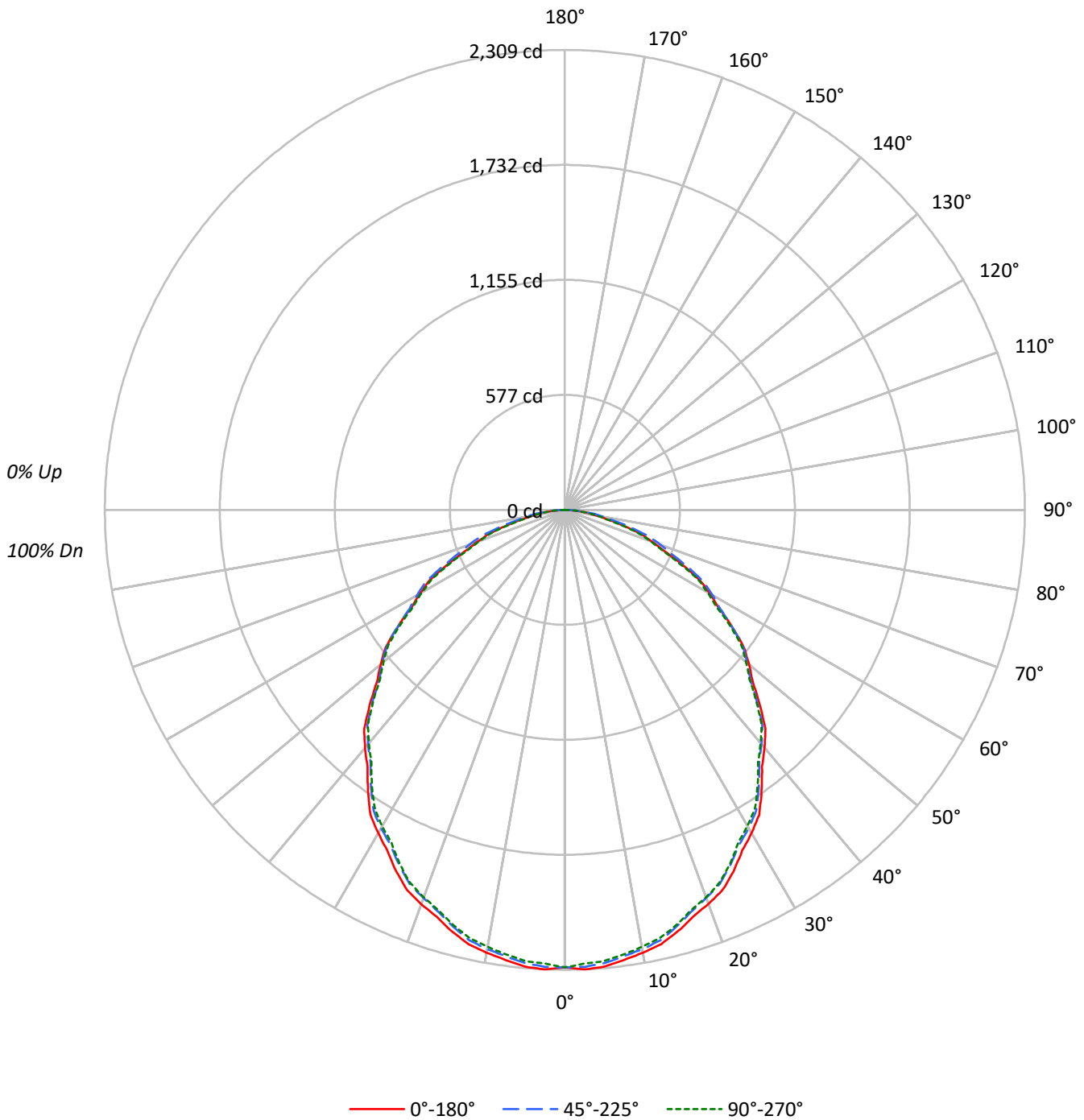
Lumens per Lamp: N/A
Luminaire Lumens: 5842.3 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	7062	7062	7062
5°	7108	7051	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6774
25°	6796	6673	6652
30°	6653	6552	6509
35°	6464	6373	6335
40°	6262	6165	6140
45°	6019	5939	5913
50°	5769	5721	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4608
70°	4166	4566	4057
75°	3558	4086	3461
80°	2759	3439	2795
85°	1785	2643	2357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	3.7
10°-20°	610.5	10.4
20°-30°	905.5	15.5
30°-40°	1059.6	18.1
40°-50°	1054.8	18.1
50°-60°	910.9	15.6
60°-70°	655.7	11.2
70°-80°	343.8	5.9
80°-90°	85.3	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°	1732.2	29.6
0°-40°	2791.8	47.8
0°-60°	4757.6	81.4
0°-90°	5842.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5842.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2302	2277	2284	2278	2274	218
15°	2191	2163	2167	2163	2159	618
25°	2003	1969	1966	1954	1960	921
35°	1722	1698	1697	1681	1687	1076
45°	1384	1372	1366	1362	1360	1068
55°	1026	1024	1026	1012	1010	915
65°	649	669	682	655	633	644
75°	299	327	344	321	291	321
85°	51	66	75	71	67	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2309.2	2290.2	2296.3	2291.2	2280.1
5°	2302.4	2276.6	2284.1	2278.0	2274.0
7.5°	2278.9	2255.1	2260.7	2254.1	2251.8
10°	2257.8	2234.1	2239.6	2231.4	2227.5
12.5°	2233.6	2208.2	2213.7	2205.6	2203.2
15°	2191.1	2163.4	2166.8	2162.7	2158.7
17.5°	2141.7	2113.6	2114.2	2107.7	2106.9
20°	2106.1	2076.4	2073.7	2065.7	2069.7
22.5°	2067.3	2036.0	2033.3	2022.1	2027.6
25°	2002.9	1969.3	1966.5	1954.5	1960.4
27.5°	1928.5	1895.2	1895.3	1878.4	1884.8
30°	1873.4	1841.8	1845.1	1825.1	1833.0
32.5°	1815.2	1786.7	1788.5	1768.4	1776.3
35°	1721.7	1698.0	1697.4	1681.4	1687.3
37.5°	1626.2	1605.2	1601.9	1592.7	1594.2
40°	1559.9	1542.0	1535.6	1529.5	1529.5
42.5°	1490.3	1474.0	1467.6	1463.1	1461.5
45°	1383.8	1372.0	1365.6	1361.5	1359.6
47.5°	1278.6	1267.6	1262.0	1259.2	1257.2
50°	1205.8	1197.9	1195.7	1189.6	1187.6
52.5°	1133.0	1128.2	1126.1	1118.4	1116.4
55°	1025.7	1023.8	1025.7	1011.5	1009.6
57.5°	914.1	917.2	923.8	904.6	899.9
60°	839.6	847.5	855.8	833.4	825.4
62.5°	763.5	776.2	787.8	762.1	751.0
65°	649.4	669.2	681.8	655.0	633.2
67.5°	539.4	563.9	579.0	550.1	525.6
70°	463.3	491.0	507.8	478.9	451.2
72.5°	396.9	427.8	441.5	414.1	386.4
75°	299.4	327.1	343.9	321.0	291.3
77.5°	212.4	238.5	252.5	232.5	208.0
80°	155.8	183.5	194.2	177.6	157.8
82.5°	110.5	133.4	140.8	130.8	117.3
85°	50.6	66.4	74.9	70.7	66.8
87.5°	12.9	24.0	30.8	30.8	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)