

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: P564809

Luminaire Tested: **SQ4-PW1-0U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564809
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-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

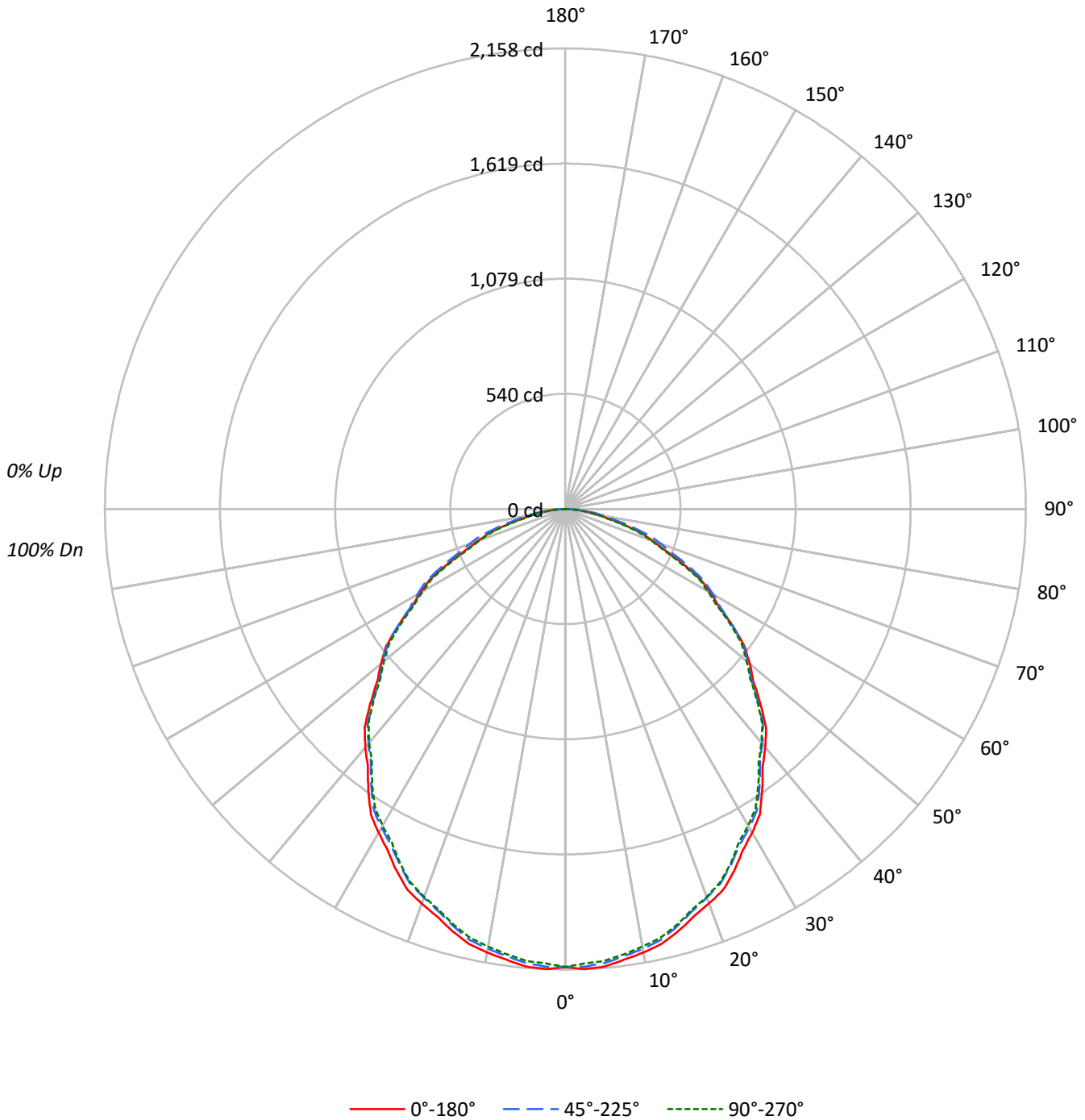
Lumens per Lamp: N/A
Luminaire Lumens: 5459.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5624	5551	5526
50°	5391	5346	5310
55°	5139	5139	5058
60°	4826	4919	4745
65°	4416	4636	4307
70°	3893	4267	3791
75°	3325	3819	3234
80°	2579	3214	2612
85°	1669	2470	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.7
10°-20°	570.5	10.4
20°-30°	846.2	15.5
30°-40°	990.2	18.1
40°-50°	985.8	18.1
50°-60°	851.2	15.6
60°-70°	612.7	11.2
70°-80°	321.3	5.9
80°-90°	79.7	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°	1618.8	29.6
0°-40°	2608.9	47.8
0°-60°	4445.9	81.4
0°-90°	5459.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5459.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2152	2128	2134	2129	2125	204
15°	2048	2022	2025	2021	2017	577
25°	1872	1840	1838	1826	1832	861
35°	1609	1587	1586	1571	1577	1006
45°	1293	1282	1276	1272	1270	998
55°	958	957	958	945	943	855
65°	607	625	637	612	592	601
75°	280	306	321	300	272	300
85°	47	62	70	66	62	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2145.8	2145.8	2145.8	2145.8	2145.8
2.5°	2157.9	2140.2	2145.8	2141.1	2130.7
5°	2151.5	2127.5	2134.5	2128.7	2125.1
7.5°	2129.6	2107.4	2112.6	2106.5	2104.3
10°	2109.9	2087.7	2092.9	2085.3	2081.6
12.5°	2087.2	2063.6	2068.7	2061.1	2058.9
15°	2047.5	2021.7	2024.8	2021.0	2017.3
17.5°	2001.4	1975.2	1975.7	1969.6	1968.9
20°	1968.1	1940.4	1937.9	1930.4	1934.1
22.5°	1931.8	1902.6	1900.1	1889.6	1894.8
25°	1871.7	1840.3	1837.7	1826.5	1832.0
27.5°	1802.1	1771.1	1771.1	1755.4	1761.3
30°	1750.7	1721.1	1724.2	1705.5	1712.9
32.5°	1696.3	1669.6	1671.3	1652.6	1660.0
35°	1608.9	1586.7	1586.2	1571.2	1576.8
37.5°	1519.7	1500.1	1497.0	1488.3	1489.8
40°	1457.7	1441.0	1435.0	1429.3	1429.3
42.5°	1392.6	1377.5	1371.5	1367.3	1365.8
45°	1293.2	1282.1	1276.2	1272.3	1270.5
47.5°	1194.9	1184.5	1179.4	1176.7	1174.8
50°	1126.8	1119.4	1117.4	1111.6	1109.8
52.5°	1058.7	1054.3	1052.3	1045.1	1043.2
55°	958.5	956.7	958.5	945.3	943.4
57.5°	854.2	857.1	863.3	845.4	840.9
60°	784.6	792.0	799.7	778.8	771.4
62.5°	713.5	725.3	736.2	712.1	701.8
65°	606.9	625.4	637.1	612.1	591.8
67.5°	504.0	527.0	541.1	514.1	491.2
70°	433.0	458.8	474.5	447.5	421.6
72.5°	370.9	399.8	412.5	387.0	361.1
75°	279.8	305.7	321.4	300.0	272.2
77.5°	198.5	222.9	235.9	217.3	194.4
80°	145.6	171.5	181.5	166.0	147.5
82.5°	103.2	124.7	131.6	122.2	109.7
85°	47.3	62.1	70.0	66.1	62.4
87.5°	12.1	22.5	28.7	28.8	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)