

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: P564137

Luminaire Tested: **SQ4-PR1-0U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564137
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-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

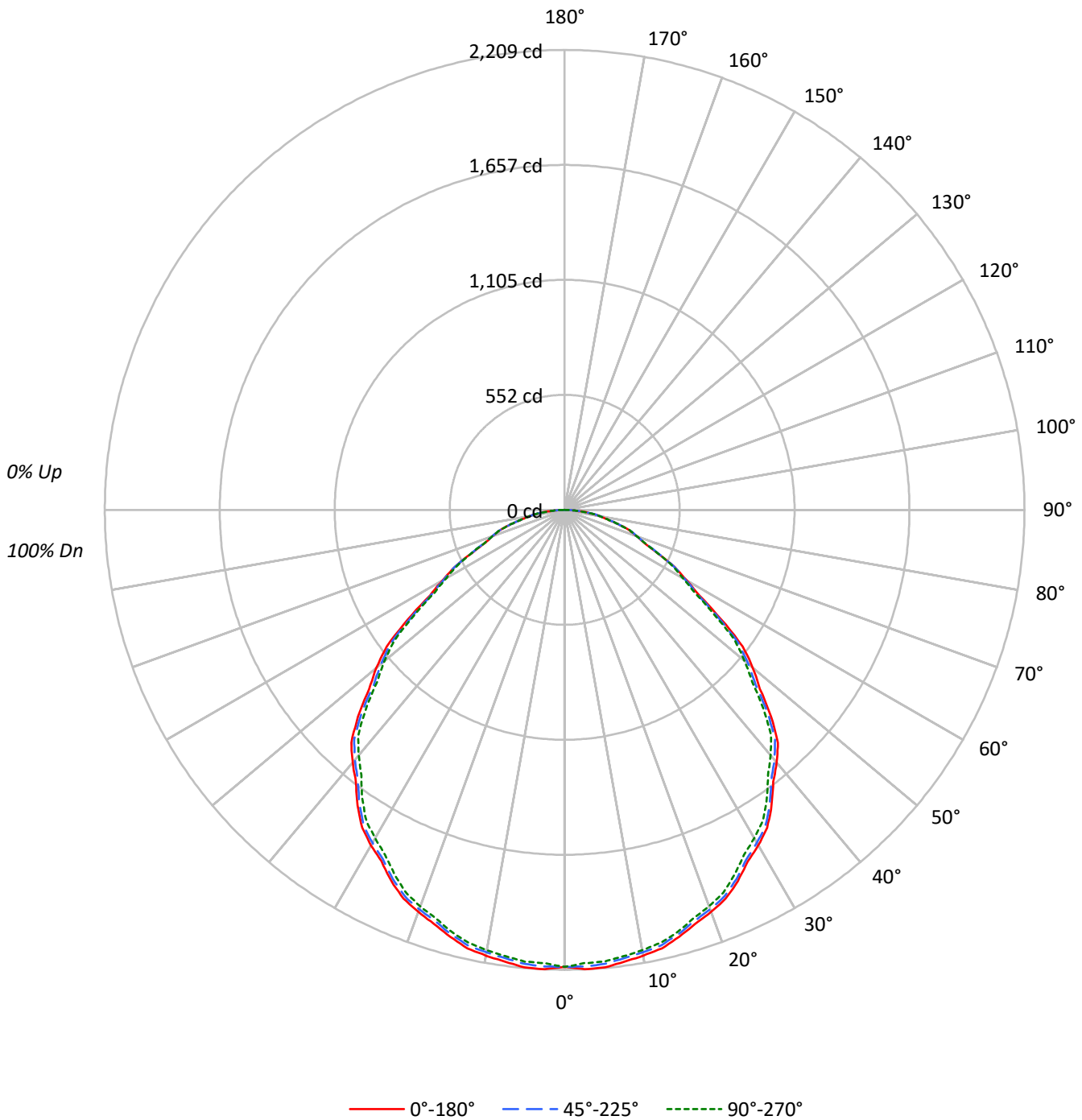
Lumens per Lamp: N/A
Luminaire Lumens: 5487.3 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	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°	6751	6751	6751
5°	6811	6759	6724
10°	6790	6743	6707
15°	6760	6718	6682
20°	6726	6683	6633
25°	6678	6634	6557
30°	6607	6559	6466
35°	6509	6452	6360
40°	6360	6292	6179
45°	6101	5995	5871
50°	5644	5509	5400
55°	4926	4815	4714
60°	4151	4117	4035
65°	3590	3604	3577
70°	3298	3315	3315
75°	3168	3168	3190
80°	2981	3014	2981
85°	2403	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	3.8
10°-20°	593.9	10.8
20°-30°	895.8	16.3
30°-40°	1067.3	19.5
40°-50°	1052.3	19.2
50°-60°	804.2	14.7
60°-70°	497.7	9.1
70°-80°	282.7	5.2
80°-90°	86.0	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°	1697.2	30.9
0°-40°	2764.5	50.4
0°-60°	4620.9	84.2
0°-90°	5487.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5487.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2206	2182	2189	2182	2178	209
15°	2123	2101	2110	2102	2099	599
25°	1968	1944	1955	1934	1932	906
35°	1734	1713	1719	1696	1694	1082
45°	1403	1384	1378	1354	1350	1075
55°	919	904	898	883	879	823
65°	493	490	495	492	492	500
75°	267	267	267	268	268	282
85°	68	72	76	76	76	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2195.0	2195.0	2195.0	2195.0	2195.0
2.5°	2208.6	2189.4	2195.0	2190.2	2179.9
5°	2206.3	2182.3	2189.3	2181.7	2178.0
7.5°	2189.3	2165.7	2172.7	2165.1	2162.9
10°	2174.2	2152.0	2159.1	2151.4	2147.7
12.5°	2157.6	2133.9	2142.4	2133.3	2129.6
15°	2123.2	2101.0	2109.9	2102.3	2098.6
17.5°	2085.3	2061.7	2070.6	2061.8	2057.0
20°	2055.1	2032.9	2041.9	2028.6	2026.7
22.5°	2021.8	1999.6	2008.6	1990.8	1990.4
25°	1968.1	1944.1	1954.9	1934.1	1932.2
27.5°	1904.2	1882.0	1891.0	1869.8	1867.5
30°	1860.4	1838.2	1847.1	1824.4	1820.7
32.5°	1810.4	1789.7	1797.2	1774.5	1772.3
35°	1733.7	1713.4	1718.6	1695.8	1694.0
37.5°	1646.3	1627.9	1630.8	1605.8	1604.0
40°	1584.3	1565.8	1567.3	1540.8	1539.0
42.5°	1516.3	1497.8	1496.2	1469.7	1467.9
45°	1402.8	1384.3	1378.3	1353.6	1349.9
47.5°	1273.5	1255.0	1243.6	1223.5	1221.0
50°	1179.7	1161.3	1151.4	1134.2	1128.7
52.5°	1078.4	1059.9	1051.6	1035.9	1030.4
55°	918.8	904.0	898.0	882.8	879.1
57.5°	767.2	757.2	755.5	740.7	739.2
60°	674.9	669.4	669.3	656.0	656.0
62.5°	596.3	592.2	595.2	586.4	585.0
65°	493.4	489.8	495.3	491.6	491.6
67.5°	412.2	412.2	415.6	414.0	414.0
70°	366.8	366.8	368.7	368.7	368.7
72.5°	325.9	324.5	329.3	329.3	327.8
75°	266.6	266.6	266.6	268.5	268.5
77.5°	207.6	208.0	209.5	209.1	207.6
80°	168.3	170.1	170.2	168.3	168.3
82.5°	128.9	130.8	130.8	130.4	128.9
85°	68.1	71.8	75.6	75.6	75.6
87.5°	19.7	25.6	30.2	30.2	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)