

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: P564200

Luminaire Tested: **SQ4-PR1-0U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564200
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-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

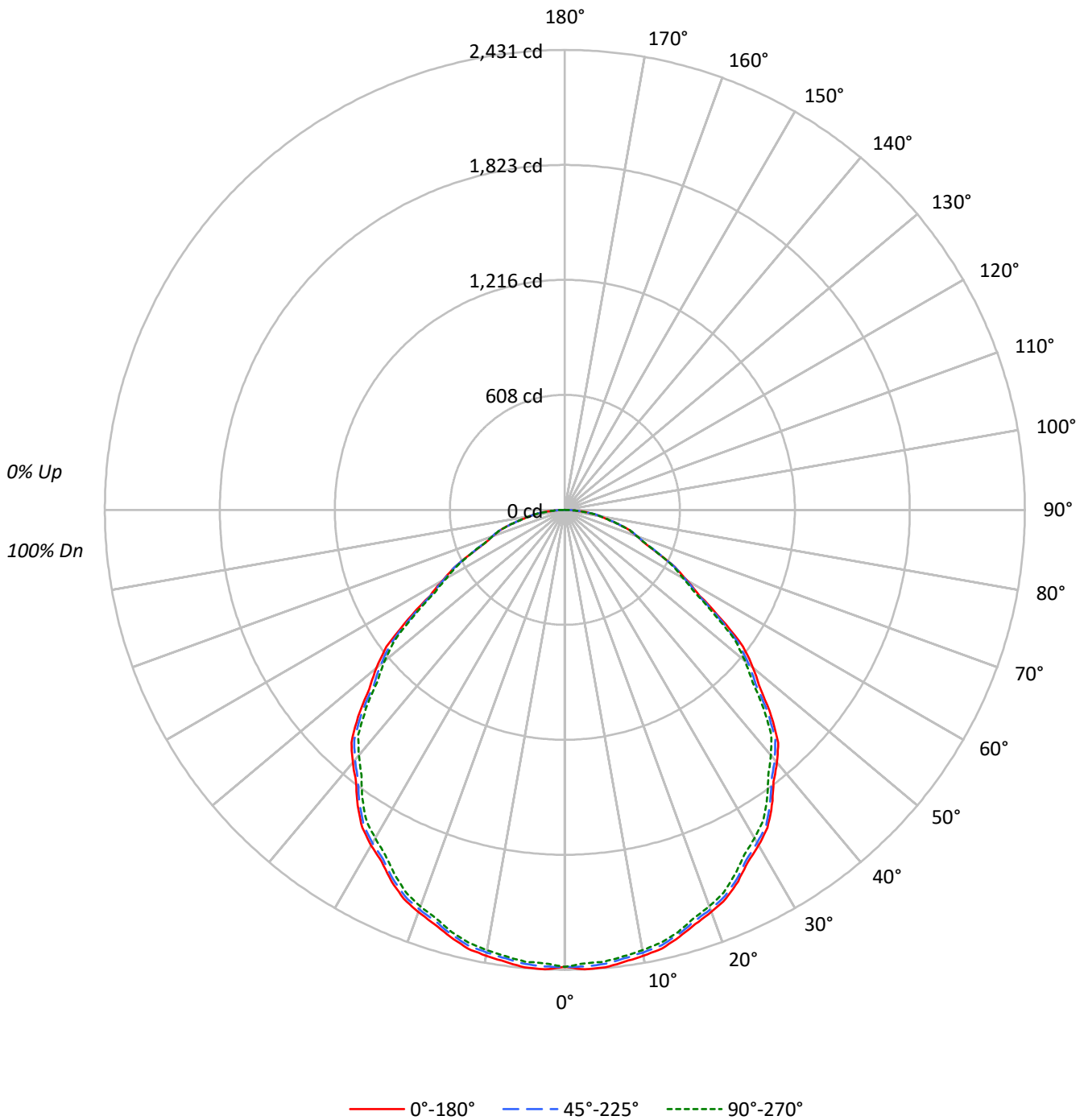
Lumens per Lamp: N/A
Luminaire Lumens: 6039.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 71.7
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°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11161	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10389	10201
45°	10074	9897	9693
50°	9319	9095	8916
55°	8134	7949	7782
60°	6854	6797	6662
65°	5928	5951	5905
70°	5445	5473	5473
75°	5229	5229	5267
80°	4920	4976	4920
85°	3964	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	3.8
10°-20°	653.7	10.8
20°-30°	985.9	16.3
30°-40°	1174.7	19.5
40°-50°	1158.2	19.2
50°-60°	885.1	14.7
60°-70°	547.8	9.1
70°-80°	311.1	5.2
80°-90°	94.6	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°	1868.1	30.9
0°-40°	3042.8	50.4
0°-60°	5086.1	84.2
0°-90°	6039.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6039.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2428	2402	2410	2401	2397	230
15°	2337	2312	2322	2314	2310	659
25°	2166	2140	2152	2129	2127	997
35°	1908	1886	1892	1867	1864	1191
45°	1544	1524	1517	1490	1486	1183
55°	1011	995	988	972	968	906
65°	543	539	545	541	541	550
75°	293	293	293	296	296	310
85°	75	79	83	83	83	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2416.0	2416.0	2416.0	2416.0	2416.0
2.5°	2430.9	2409.8	2416.0	2410.7	2399.3
5°	2428.5	2402.0	2409.7	2401.3	2397.2
7.5°	2409.7	2383.7	2391.4	2383.0	2380.6
10°	2393.1	2368.7	2376.4	2368.0	2363.9
12.5°	2374.8	2348.7	2358.1	2348.0	2344.0
15°	2336.9	2312.5	2322.3	2313.9	2309.8
17.5°	2295.3	2269.2	2279.0	2269.3	2264.1
20°	2262.0	2237.6	2247.4	2232.8	2230.8
22.5°	2225.4	2200.9	2210.8	2191.2	2190.8
25°	2166.3	2139.8	2151.7	2128.8	2126.7
27.5°	2095.9	2071.5	2081.4	2058.0	2055.5
30°	2047.6	2023.2	2033.1	2008.0	2003.9
32.5°	1992.7	1969.9	1978.1	1953.1	1950.7
35°	1908.2	1885.8	1891.6	1866.6	1864.5
37.5°	1812.1	1791.7	1795.0	1767.5	1765.5
40°	1743.8	1723.5	1725.1	1695.9	1693.9
42.5°	1668.9	1648.6	1646.9	1617.7	1615.6
45°	1544.1	1523.7	1517.0	1489.9	1485.8
47.5°	1401.7	1381.4	1368.8	1346.7	1343.9
50°	1298.5	1278.2	1267.3	1248.4	1242.3
52.5°	1187.0	1166.6	1157.4	1140.2	1134.1
55°	1011.3	995.1	988.4	971.7	967.6
57.5°	844.4	833.5	831.5	815.3	813.6
60°	742.9	736.8	736.7	722.1	722.1
62.5°	656.3	651.9	655.1	645.5	643.8
65°	543.1	539.1	545.2	541.0	541.0
67.5°	453.6	453.6	457.4	455.7	455.7
70°	403.7	403.7	405.8	405.8	405.8
72.5°	358.8	357.1	362.5	362.5	360.8
75°	293.4	293.4	293.4	295.5	295.5
77.5°	228.5	228.9	230.6	230.1	228.5
80°	185.2	187.2	187.3	185.2	185.2
82.5°	141.9	144.0	144.0	143.5	141.9
85°	74.9	79.0	83.2	83.2	83.2
87.5°	21.6	28.2	33.3	33.3	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)