

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: P563532

Luminaire Tested: **SQ4-PP3-0U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563532
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

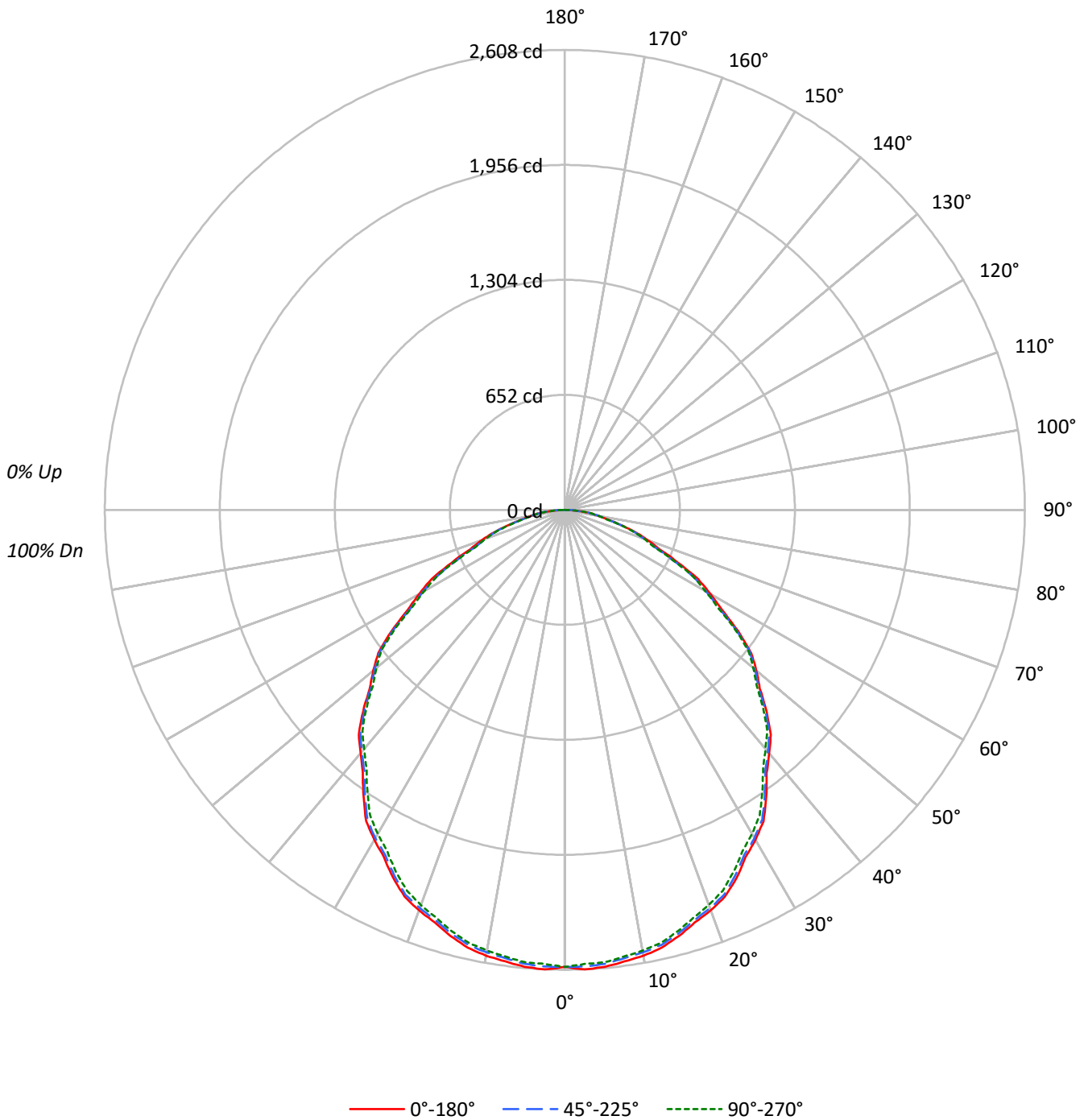
Lumens per Lamp: N/A
Luminaire Lumens: 6634.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11814
20°	11865	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5588
80°	5069	5130	5008
85°	3970	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	3.7
10°-20°	699.8	10.5
20°-30°	1048.2	15.8
30°-40°	1229.5	18.5
40°-50°	1233.4	18.6
50°-60°	1052.2	15.9
60°-70°	686.2	10.3
70°-80°	344.3	5.2
80°-90°	95.3	1.4
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°	1993.2	30.0
0°-40°	3222.7	48.6
0°-60°	5508.3	83.0
0°-90°	6634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2601	2577	2585	2576	2576	247
15°	2501	2477	2488	2478	2474	706
25°	2304	2277	2288	2267	2265	1059
35°	1990	1970	1976	1954	1951	1243
45°	1617	1606	1606	1590	1590	1245
55°	1199	1195	1184	1177	1174	1066
65°	709	695	679	675	677	707
75°	323	323	318	316	314	350
85°	75	82	82	82	82	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2608.3	2587.0	2592.0	2588.1	2577.4
5°	2601.1	2576.6	2585.2	2576.1	2576.1
7.5°	2583.3	2556.7	2565.2	2556.1	2555.6
10°	2567.0	2540.3	2548.8	2539.7	2537.4
12.5°	2543.4	2516.7	2527.0	2516.1	2515.6
15°	2501.1	2476.7	2487.5	2478.3	2473.8
17.5°	2453.4	2426.7	2439.8	2427.0	2425.2
20°	2417.0	2390.4	2403.4	2385.2	2385.2
22.5°	2373.4	2346.8	2361.6	2338.0	2338.0
25°	2303.5	2276.8	2287.6	2267.1	2264.8
27.5°	2220.3	2194.1	2205.3	2182.1	2181.7
30°	2160.4	2135.9	2149.0	2124.0	2121.7
32.5°	2094.9	2072.3	2081.8	2056.7	2054.5
35°	1990.0	1970.0	1976.3	1953.6	1951.4
37.5°	1879.6	1859.1	1866.4	1846.8	1846.0
40°	1801.4	1788.1	1790.1	1774.1	1769.6
42.5°	1728.7	1713.6	1715.6	1699.6	1698.7
45°	1617.4	1606.3	1606.1	1590.2	1590.2
47.5°	1499.3	1490.9	1488.4	1475.2	1474.8
50°	1417.5	1410.9	1408.4	1397.0	1394.8
52.5°	1332.1	1329.0	1321.2	1311.6	1311.2
55°	1199.4	1195.0	1183.5	1176.7	1174.4
57.5°	1055.4	1046.5	1033.6	1023.7	1025.4
60°	951.8	942.9	924.6	920.0	920.0
62.5°	851.9	841.2	822.8	816.5	820.1
65°	708.8	695.4	679.2	674.7	677.0
67.5°	578.8	566.8	549.3	549.2	547.5
70°	495.2	488.6	474.8	474.8	474.8
72.5°	420.7	417.6	407.5	407.5	405.7
75°	322.6	322.6	318.0	315.7	313.5
77.5°	241.7	242.6	240.3	238.0	234.0
80°	190.8	195.3	193.1	190.8	188.5
82.5°	143.6	148.0	147.7	143.6	143.1
85°	75.0	81.6	81.8	81.8	81.8
87.5°	20.0	27.1	29.1	29.1	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)