

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: P564192

Luminaire Tested: **SQ4-PR1-0U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564192
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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

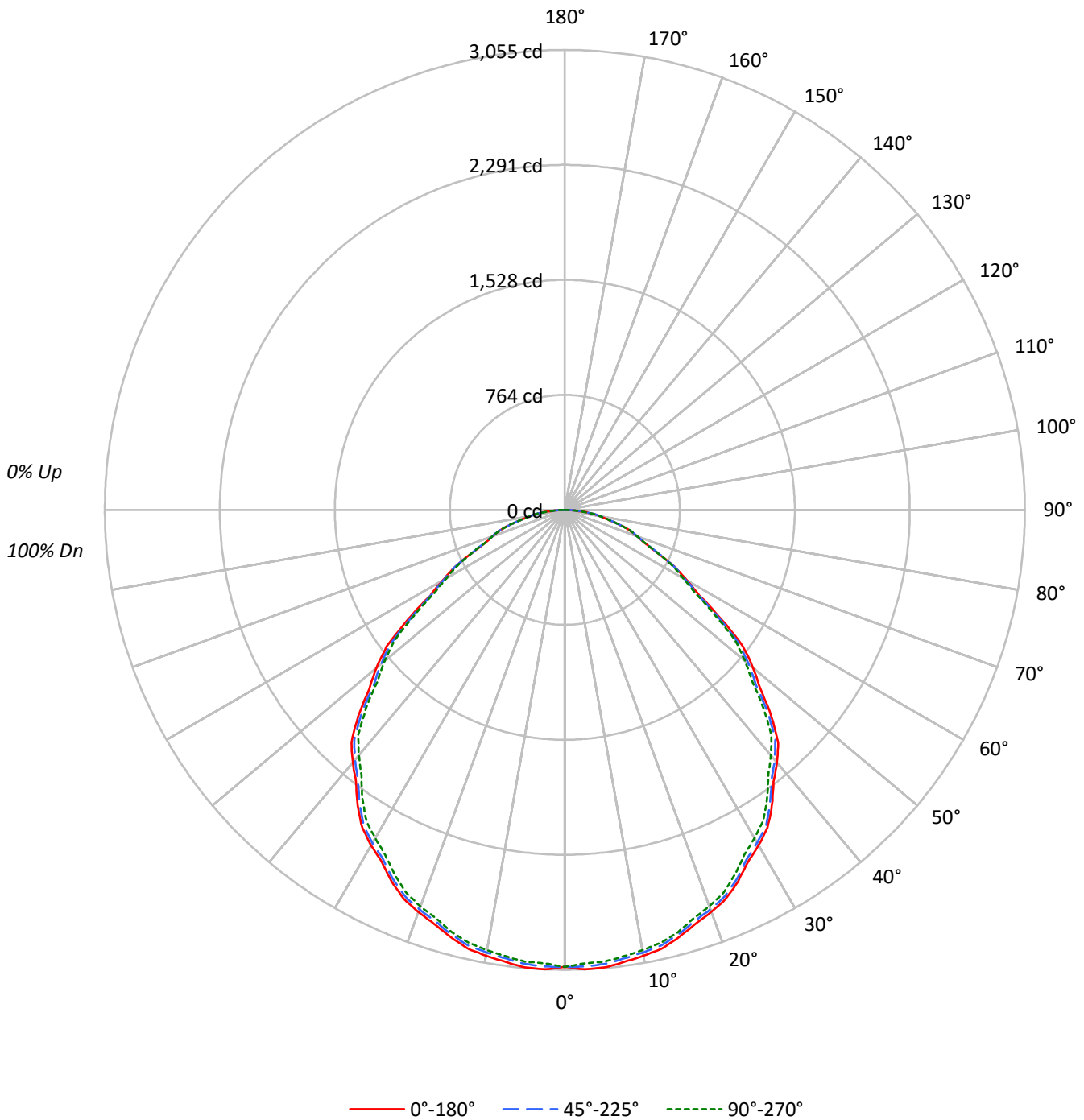
Lumens per Lamp: N/A
Luminaire Lumens: 7589.8 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13916
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10221	9990	9780
60°	8614	8541	8372
65°	7450	7478	7421
70°	6842	6877	6877
75°	6572	6572	6618
80°	6182	6254	6182
85°	4981	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	3.8
10°-20°	821.4	10.8
20°-30°	1239.0	16.3
30°-40°	1476.3	19.5
40°-50°	1455.5	19.2
50°-60°	1112.3	14.7
60°-70°	688.3	9.1
70°-80°	390.9	5.2
80°-90°	118.9	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°	2347.5	30.9
0°-40°	3823.8	50.4
0°-60°	6391.6	84.2
0°-90°	7589.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7589.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	3052	3018	3028	3018	3012	290
15°	2937	2906	2918	2908	2903	829
25°	2722	2689	2704	2675	2673	1253
35°	2398	2370	2377	2346	2343	1497
45°	1940	1915	1906	1872	1867	1487
55°	1271	1250	1242	1221	1216	1139
65°	682	677	685	680	680	691
75°	369	369	369	371	371	389
85°	94	99	105	105	105	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3036.1	3036.1	3036.1	3036.1	3036.1
2.5°	3054.9	3028.3	3036.1	3029.5	3015.1
5°	3051.8	3018.5	3028.2	3017.6	3012.5
7.5°	3028.2	2995.5	3005.2	2994.7	2991.6
10°	3007.3	2976.6	2986.4	2975.8	2970.7
12.5°	2984.3	2951.6	2963.4	2950.7	2945.6
15°	2936.7	2906.0	2918.4	2907.8	2902.7
17.5°	2884.4	2851.7	2864.0	2851.8	2845.2
20°	2842.6	2811.9	2824.2	2805.9	2803.3
22.5°	2796.5	2765.8	2778.2	2753.6	2753.1
25°	2722.3	2689.0	2704.0	2675.1	2672.6
27.5°	2633.9	2603.2	2615.6	2586.2	2583.1
30°	2573.2	2542.5	2554.9	2523.4	2518.3
32.5°	2504.2	2475.5	2485.9	2454.4	2451.3
35°	2398.0	2369.9	2377.1	2345.6	2343.1
37.5°	2277.2	2251.6	2255.7	2221.2	2218.6
40°	2191.4	2165.8	2167.9	2131.2	2128.6
42.5°	2097.3	2071.7	2069.5	2032.9	2030.3
45°	1940.4	1914.8	1906.4	1872.3	1867.1
47.5°	1761.5	1735.9	1720.2	1692.4	1688.8
50°	1631.8	1606.2	1592.6	1568.9	1561.2
52.5°	1491.6	1466.1	1454.5	1432.9	1425.2
55°	1270.9	1250.5	1242.1	1221.1	1216.0
57.5°	1061.2	1047.4	1045.0	1024.5	1022.5
60°	933.6	925.9	925.7	907.4	907.4
62.5°	824.8	819.2	823.2	811.1	809.1
65°	682.5	677.4	685.1	679.9	679.9
67.5°	570.1	570.1	574.8	572.7	572.7
70°	507.3	507.3	509.9	509.9	509.9
72.5°	450.8	448.8	455.5	455.5	453.4
75°	368.7	368.7	368.7	371.3	371.3
77.5°	287.1	287.6	289.7	289.2	287.1
80°	232.7	235.3	235.4	232.7	232.7
82.5°	178.3	180.9	181.0	180.4	178.3
85°	94.1	99.3	104.6	104.6	104.6
87.5°	27.2	35.4	41.8	41.8	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)