

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: P563520

Luminaire Tested: **SQ4-PP3-0U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563520
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

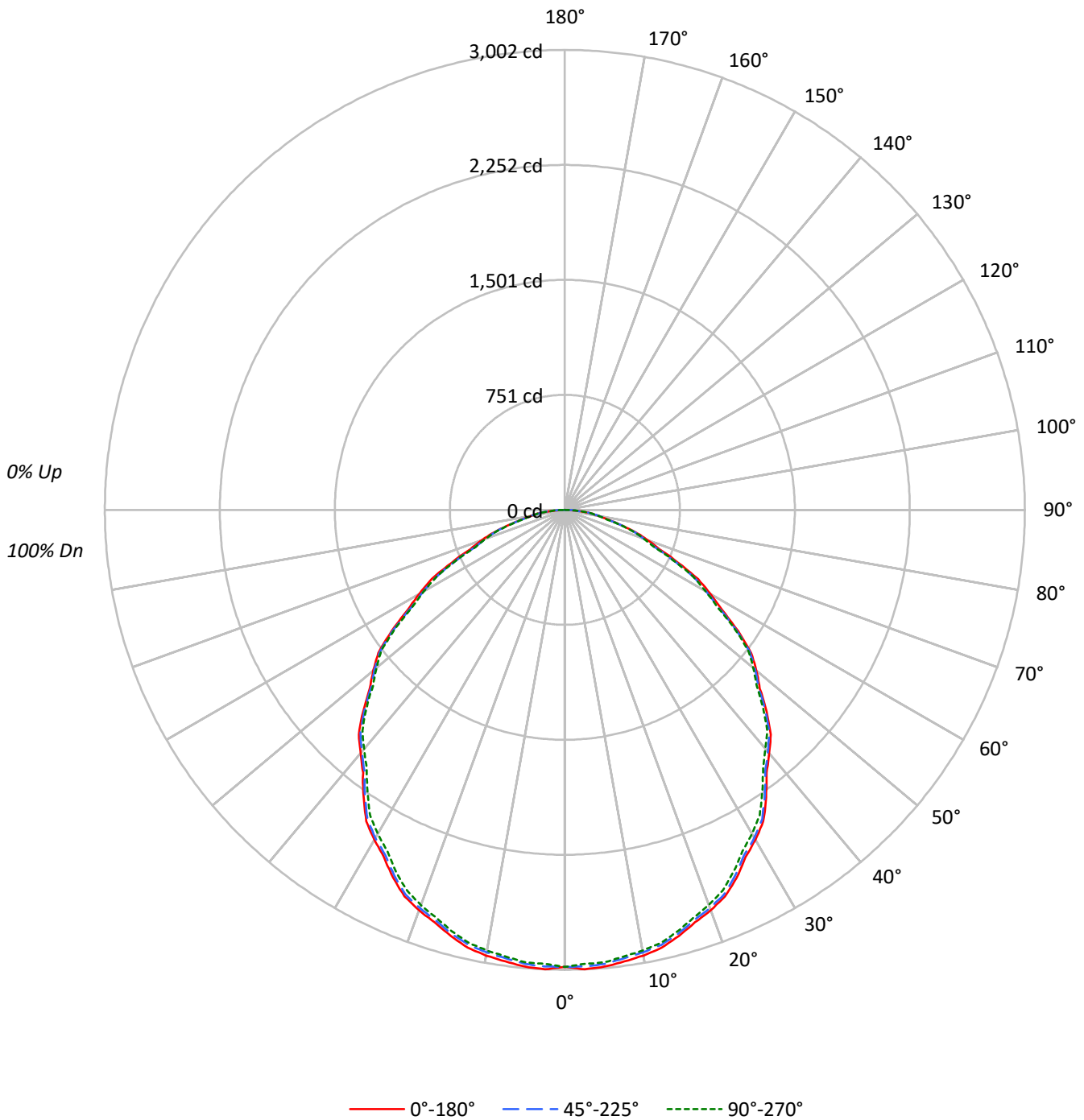
Lumens per Lamp: N/A
Luminaire Lumens: 7635.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13400	13268
30°	13244	13175	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11939
50°	11708	11633	11521
55°	11102	10955	10871
60°	10106	9818	9769
65°	8904	8533	8504
70°	7687	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4568	4981	4981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	3.7
10°-20°	805.4	10.5
20°-30°	1206.4	15.8
30°-40°	1415.1	18.5
40°-50°	1419.5	18.6
50°-60°	1210.9	15.9
60°-70°	789.7	10.3
70°-80°	396.2	5.2
80°-90°	109.6	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°	2293.9	30.0
0°-40°	3709.0	48.6
0°-60°	6339.4	83.0
0°-90°	7635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2983	2983	2983	2983	2983	
5°	2994	2965	2975	2965	2965	284
15°	2878	2850	2863	2852	2847	812
25°	2651	2620	2633	2609	2607	1219
35°	2290	2267	2275	2248	2246	1431
45°	1862	1849	1848	1830	1830	1433
55°	1380	1375	1362	1354	1352	1227
65°	816	800	782	776	779	814
75°	371	371	366	363	361	403
85°	86	94	94	94	94	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	3001.9	2977.4	2983.1	2978.6	2966.3
5°	2993.5	2965.4	2975.2	2964.8	2964.8
7.5°	2973.1	2942.5	2952.2	2941.7	2941.2
10°	2954.3	2923.6	2933.4	2922.9	2920.3
12.5°	2927.1	2896.4	2908.3	2895.7	2895.2
15°	2878.5	2850.4	2862.8	2852.2	2847.1
17.5°	2823.6	2792.9	2807.9	2793.2	2791.2
20°	2781.8	2751.1	2766.1	2745.2	2745.2
22.5°	2731.6	2700.9	2718.0	2690.8	2690.8
25°	2651.0	2620.4	2632.7	2609.1	2606.6
27.5°	2555.3	2525.2	2538.1	2511.4	2510.9
30°	2486.3	2458.2	2473.3	2444.4	2441.9
32.5°	2411.0	2385.0	2395.9	2367.0	2364.5
35°	2290.2	2267.2	2274.6	2248.4	2245.8
37.5°	2163.2	2139.7	2148.0	2125.5	2124.5
40°	2073.2	2057.9	2060.2	2041.8	2036.6
42.5°	1989.6	1972.2	1974.4	1956.1	1955.1
45°	1861.5	1848.7	1848.4	1830.1	1830.1
47.5°	1725.5	1715.8	1713.0	1697.8	1697.3
50°	1631.4	1623.7	1620.9	1607.8	1605.3
52.5°	1533.1	1529.5	1520.6	1509.6	1509.1
55°	1380.4	1375.3	1362.1	1354.2	1351.7
57.5°	1214.7	1204.4	1189.6	1178.1	1180.2
60°	1095.4	1085.2	1064.1	1058.8	1058.8
62.5°	980.4	968.1	946.9	939.7	943.8
65°	815.7	800.4	781.7	776.5	779.1
67.5°	666.2	652.4	632.2	632.1	630.1
70°	569.9	562.3	546.4	546.4	546.4
72.5°	484.2	480.6	469.0	469.0	466.9
75°	371.2	371.2	366.0	363.3	360.8
77.5°	278.2	279.2	276.6	273.9	269.3
80°	219.6	224.7	222.2	219.6	217.0
82.5°	165.2	170.3	169.9	165.2	164.7
85°	86.3	93.9	94.1	94.1	94.1
87.5°	23.0	31.2	33.5	33.5	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)