

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: P563904

Luminaire Tested: **SQ4-PR1-025U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563904
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

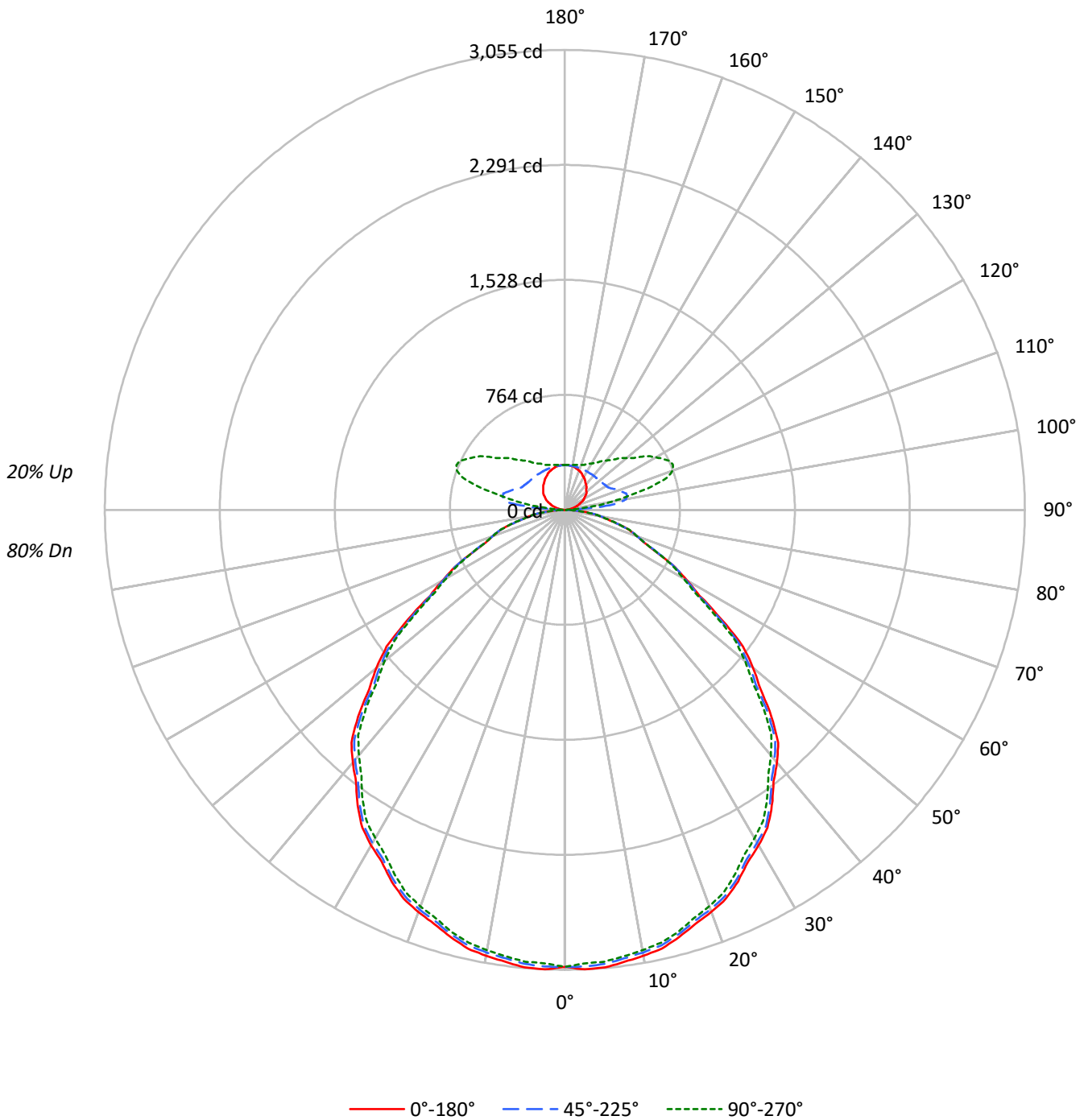
Lumens per Lamp: N/A
Luminaire Lumens: 9523.2 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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	3.0
10°-20°	821.4	8.6
20°-30°	1239.0	13.0
30°-40°	1476.3	15.5
40°-50°	1455.5	15.3
50°-60°	1112.3	11.7
60°-70°	688.3	7.2
70°-80°	390.9	4.1
80°-90°	120.5	1.3
90°-100°	145.3	1.5
100°-110°	381.9	4.0
110°-120°	396.0	4.2
120°-130°	317.6	3.3
130°-140°	249.2	2.6
140°-150°	191.3	2.0
150°-160°	137.8	1.4
160°-170°	84.3	0.9
170°-180°	28.5	0.3
0°-30°	2347.5	24.7
0°-40°	3823.8	40.2
0°-60°	6391.6	67.1
0°-90°	7591.4	79.7
90°-120°	923.2	9.7
90°-150°	1681.3	17.7
90°-180°	1932.0	20.3
0°-180°	9523.2	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	109
90°	2	6	15	8	8	5
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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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°	27.6	36.5	44.9	43.3	41.3
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)