

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: P564405

Luminaire Tested: **SQ4-PR1-125U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564405
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

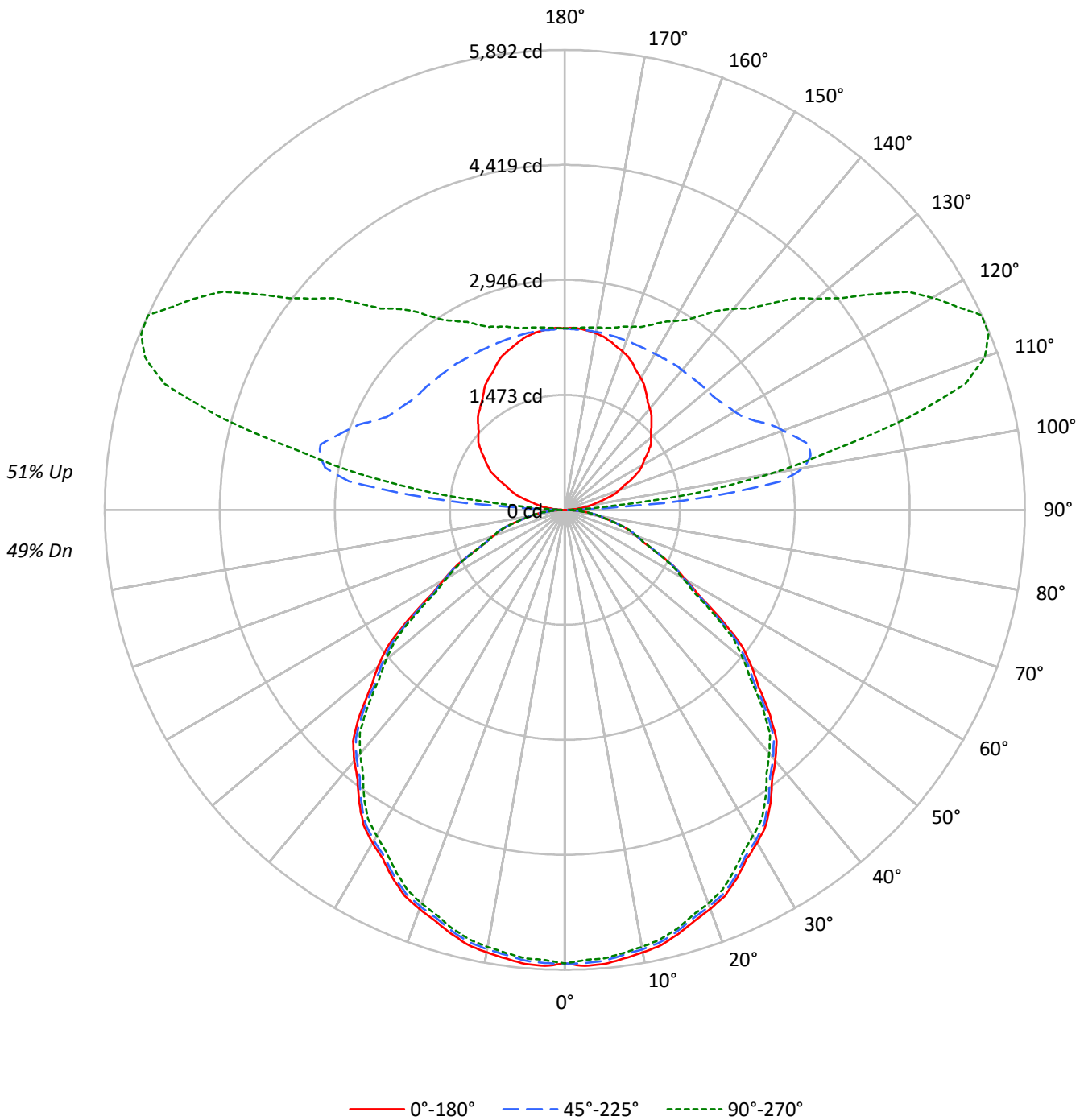
Lumens per Lamp: N/A
Luminaire Lumens: 29531.9 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 233.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15545
50°	14945	14585	14298
55°	13044	12749	12481
60°	10991	10899	10684
65°	9507	9544	9471
70°	8732	8777	8777
75°	8387	8387	8446
80°	7890	7979	7890
85°	6359	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.6	1.9
10°-20°	1572.4	5.3
20°-30°	2371.7	8.0
30°-40°	2825.8	9.6
40°-50°	2786.0	9.4
50°-60°	2129.2	7.2
60°-70°	1317.6	4.5
70°-80°	748.4	2.5
80°-90°	233.1	0.8
90°-100°	1086.8	3.7
100°-110°	2927.6	9.9
110°-120°	3072.5	10.4
120°-130°	2493.2	8.4
130°-140°	1955.4	6.6
140°-150°	1501.2	5.1
150°-160°	1079.4	3.7
160°-170°	659.4	2.2
170°-180°	222.4	0.8
0°-30°	4493.6	15.2
0°-40°	7319.5	24.8
0°-60°	12234.8	41.4
0°-90°	14533.9	49.2
90°-120°	7086.9	24.0
90°-150°	13036.8	44.1
90°-180°	14998.0	50.8
0°-180°	29531.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5812	5812	5812	5812	5812	
5°	5842	5778	5797	5776	5767	554
15°	5621	5563	5586	5566	5556	1586
25°	5211	5147	5176	5121	5116	2398
35°	4590	4536	4550	4490	4485	2865
45°	3714	3665	3649	3584	3574	2845
55°	2433	2394	2378	2338	2328	2180
65°	1306	1297	1312	1302	1302	1323
75°	706	706	706	711	711	745
85°	180	190	200	200	200	210
90°	6	18	36	38	38	19
95°	166	591	1782	911	630	173
105°	542	843	3238	4844	4546	569
115°	956	1170	2696	5210	5892	941
125°	1305	1499	2421	4092	4815	1165
135°	1572	1754	2353	3301	3738	1213
145°	1817	1959	2323	2822	3031	1140
155°	2063	2138	2302	2532	2613	950
165°	2237	2264	2311	2403	2415	631
175°	2326	2323	2314	2347	2341	221
180°	2323	2323	2323	2323	2323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5811.6	5811.6	5811.6	5811.6	5811.6
2.5°	5847.7	5796.8	5811.6	5799.0	5771.6
5°	5841.7	5778.1	5796.6	5776.4	5766.6
7.5°	5796.6	5734.0	5752.6	5732.4	5726.5
10°	5756.6	5697.8	5716.5	5696.3	5686.5
12.5°	5712.5	5649.9	5672.5	5648.2	5638.4
15°	5621.4	5562.7	5586.4	5566.1	5556.4
17.5°	5521.3	5458.7	5482.3	5459.0	5446.2
20°	5441.2	5382.5	5406.2	5371.0	5366.1
22.5°	5353.1	5294.4	5318.1	5271.0	5270.0
25°	5211.0	5147.3	5175.9	5120.7	5115.8
27.5°	5041.8	4983.0	5006.7	4950.5	4944.7
30°	4925.6	4866.9	4890.6	4830.3	4820.5
32.5°	4793.5	4738.7	4758.4	4698.2	4692.4
35°	4590.2	4536.4	4550.2	4490.0	4485.1
37.5°	4359.0	4310.0	4317.9	4251.8	4246.9
40°	4194.8	4145.9	4149.7	4079.6	4074.7
42.5°	4014.6	3965.6	3961.5	3891.3	3886.4
45°	3714.2	3665.3	3649.2	3583.9	3574.1
47.5°	3371.9	3322.9	3292.8	3239.5	3232.7
50°	3123.6	3074.6	3048.5	3003.1	2988.4
52.5°	2855.3	2806.3	2784.2	2742.8	2728.1
55°	2432.8	2393.6	2377.7	2337.5	2327.7
57.5°	2031.3	2004.9	2000.3	1961.2	1957.2
60°	1787.0	1772.4	1772.0	1737.0	1737.0
62.5°	1578.8	1568.0	1575.8	1552.7	1548.8
65°	1306.5	1296.7	1311.5	1301.5	1301.5
67.5°	1091.2	1091.2	1100.3	1096.3	1096.3
70°	971.1	971.1	976.1	976.1	976.1
72.5°	863.0	859.1	872.0	871.9	868.0
75°	705.8	705.8	705.8	710.8	710.8
77.5°	549.6	550.6	554.6	553.5	549.6
80°	445.5	450.4	450.5	445.5	445.5
82.5°	341.4	346.3	346.4	345.3	341.4
85°	180.2	190.0	200.2	200.2	200.2
87.5°	53.2	71.2	87.2	87.7	83.8
90°	5.9	17.5	35.5	38.5	38.5
92.5°	72.2	255.1	504.3	242.8	168.7
95°	165.7	591.1	1781.7	911.1	630.4
97.5°	264.6	676.7	2794.4	2334.5	1760.3
100°	340.3	710.8	3116.4	3260.6	2705.0
102.5°	413.7	758.7	3223.0	3954.3	3498.2
105°	541.6	842.6	3237.8	4843.9	4545.9
107.5°	662.3	930.9	3099.8	5301.1	5378.1
110°	742.8	997.5	2974.4	5443.1	5723.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	828.1	1064.2	2853.6	5411.7	5873.0
115°	955.9	1170.1	2696.2	5209.5	5892.5
117.5°	1072.5	1273.4	2574.2	4886.9	5647.4
120°	1148.3	1342.2	2512.7	4655.4	5436.7
122.5°	1214.6	1406.2	2467.7	4418.6	5197.6
125°	1305.2	1499.1	2420.9	4091.8	4815.2
127.5°	1392.2	1583.2	2391.3	3803.5	4449.4
130°	1444.3	1635.3	2379.5	3638.4	4205.5
132.5°	1496.4	1685.0	2367.6	3492.9	4013.8
135°	1571.5	1753.8	2352.9	3301.0	3737.9
137.5°	1643.1	1817.9	2345.2	3138.2	3497.0
140°	1692.9	1860.7	2338.1	3038.0	3362.1
142.5°	1745.0	1901.2	2333.3	2944.5	3217.6
145°	1817.2	1959.0	2323.3	2822.2	3030.6
147.5°	1895.3	2018.6	2313.2	2719.4	2883.2
150°	1947.4	2054.5	2308.5	2654.9	2790.9
152.5°	1994.7	2087.9	2306.1	2602.2	2712.7
155°	2062.8	2138.1	2302.5	2532.3	2613.3
157.5°	2122.6	2181.1	2303.1	2483.1	2537.5
160°	2160.5	2209.7	2305.5	2454.4	2494.9
162.5°	2193.6	2233.6	2307.9	2430.5	2459.4
165°	2237.4	2263.5	2311.4	2403.4	2415.0
167.5°	2272.9	2288.0	2314.4	2382.6	2387.2
170°	2296.6	2302.4	2314.4	2370.6	2370.6
172.5°	2310.8	2312.0	2316.7	2358.8	2358.8
175°	2326.2	2323.3	2314.4	2346.8	2341.0
177.5°	2332.7	2328.1	2316.2	2335.0	2330.4
180°	2323.3	2323.3	2323.3	2323.3	2323.3

(END OF REPORT)