

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: P564393

Luminaire Tested: **SQ4-PR1-125U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564393
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-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22928.5 lumens
Efficiency: N/A
Efficacy: 114.0 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

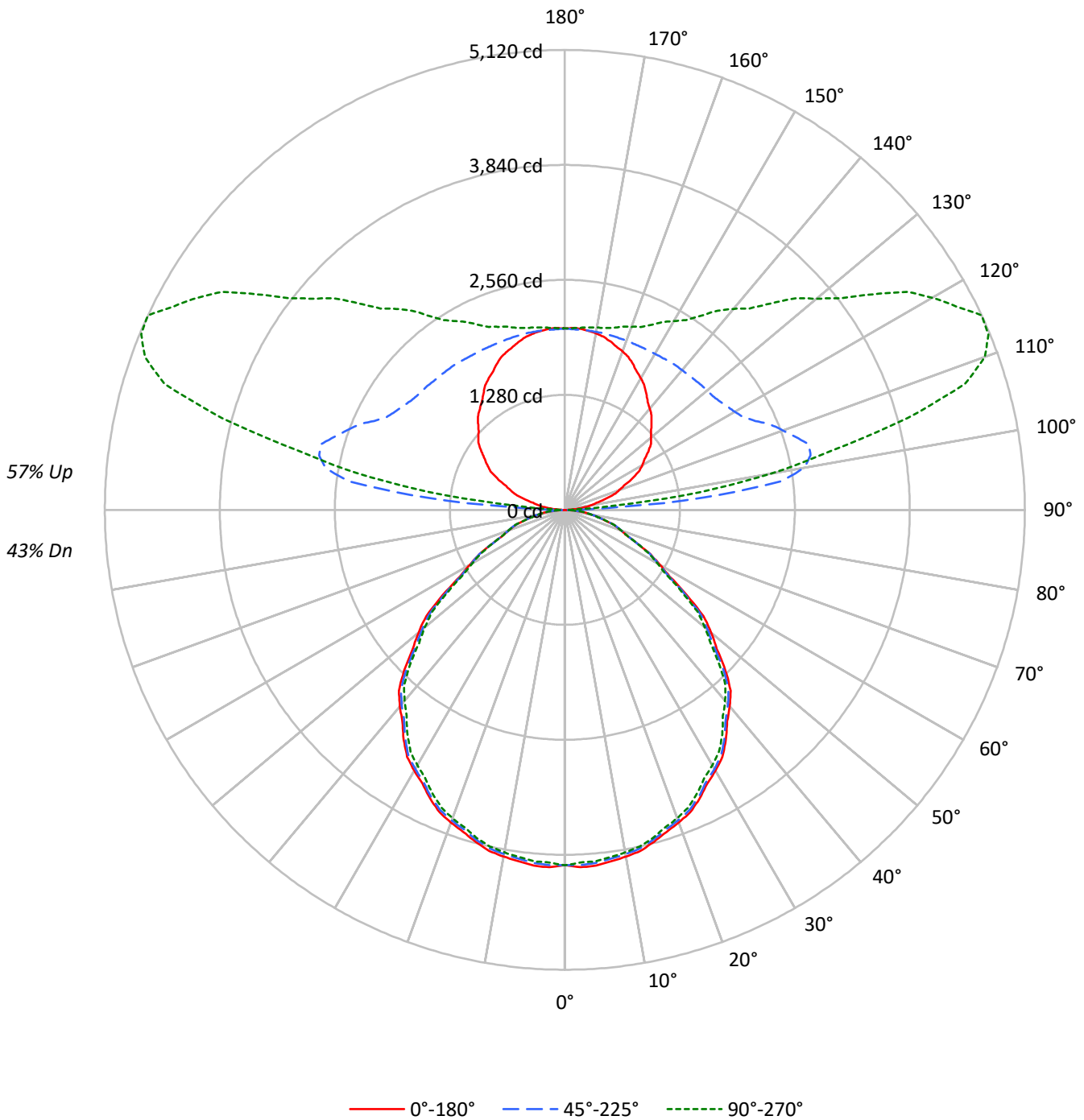
Input Watts (W): 201.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37				37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31				31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27				27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23				23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20				20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18				18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16				16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14				14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13				13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8680	8498
60°	7484	7421	7275
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5372	5432	5372
85°	4330	4810	4810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	1.6
10°-20°	1070.6	4.7
20°-30°	1614.8	7.0
30°-40°	1924.1	8.4
40°-50°	1897.0	8.3
50°-60°	1449.7	6.3
60°-70°	897.2	3.9
70°-80°	509.6	2.2
80°-90°	159.7	0.7
90°-100°	944.3	4.1
100°-110°	2543.8	11.1
110°-120°	2669.6	11.6
120°-130°	2166.3	9.4
130°-140°	1699.0	7.4
140°-150°	1304.4	5.7
150°-160°	937.9	4.1
160°-170°	573.0	2.5
170°-180°	193.2	0.8
0°-30°	3059.6	13.3
0°-40°	4983.7	21.7
0°-60°	8330.4	36.3
0°-90°	9896.9	43.2
90°-120°	6157.8	26.9
90°-150°	11327.5	49.4
90°-180°	13032.0	56.8
0°-180°	22928.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3957	3957	3957	3957	3957	
5°	3978	3934	3947	3933	3926	377
15°	3828	3788	3804	3790	3783	1080
25°	3548	3505	3524	3487	3483	1633
35°	3125	3089	3098	3057	3054	1951
45°	2529	2496	2485	2440	2434	1937
55°	1656	1630	1619	1592	1585	1484
65°	890	883	893	886	886	901
75°	481	481	481	484	484	508
85°	123	129	136	136	136	143
90°	5	15	31	33	33	15
95°	144	514	1548	792	548	150
105°	471	732	2813	4209	3950	495
115°	831	1017	2343	4526	5120	817
125°	1134	1302	2104	3555	4184	1013
135°	1366	1524	2044	2868	3248	1054
145°	1579	1702	2019	2452	2633	990
155°	1792	1858	2001	2200	2271	825
165°	1944	1967	2008	2088	2098	548
175°	2021	2019	2011	2039	2034	192
180°	2019	2019	2019	2019	2019	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3957.0	3957.0	3957.0	3957.0	3957.0
2.5°	3981.6	3946.9	3957.0	3948.4	3929.8
5°	3977.5	3934.2	3946.8	3933.0	3926.4
7.5°	3946.8	3904.1	3916.8	3903.1	3899.1
10°	3919.5	3879.5	3892.3	3878.5	3871.8
12.5°	3889.5	3846.9	3862.3	3845.8	3839.1
15°	3827.5	3787.5	3803.7	3789.9	3783.2
17.5°	3759.3	3716.7	3732.8	3716.9	3708.2
20°	3704.8	3664.8	3681.0	3657.0	3653.7
22.5°	3644.8	3604.8	3621.0	3588.9	3588.2
25°	3548.0	3504.7	3524.2	3486.6	3483.3
27.5°	3432.8	3392.8	3409.0	3370.7	3366.7
30°	3353.8	3313.8	3329.9	3288.9	3282.2
32.5°	3263.8	3226.5	3239.9	3198.9	3194.9
35°	3125.4	3088.7	3098.1	3057.2	3053.8
37.5°	2967.9	2934.6	2940.0	2894.9	2891.6
40°	2856.1	2822.8	2825.5	2777.7	2774.3
42.5°	2733.5	2700.1	2697.3	2649.5	2646.2
45°	2529.0	2495.6	2484.6	2440.2	2433.5
47.5°	2295.8	2262.5	2242.0	2205.7	2201.1
50°	2126.8	2093.4	2075.6	2044.7	2034.8
52.5°	1944.1	1910.8	1895.7	1867.5	1857.5
55°	1656.4	1629.8	1618.9	1591.5	1584.9
57.5°	1383.1	1365.1	1362.0	1335.3	1332.6
60°	1216.8	1206.8	1206.5	1182.7	1182.7
62.5°	1075.0	1067.6	1072.9	1057.2	1054.5
65°	889.6	882.9	893.0	886.2	886.2
67.5°	743.0	743.0	749.1	746.4	746.4
70°	661.2	661.2	664.6	664.6	664.6
72.5°	587.6	584.9	593.7	593.7	591.0
75°	480.6	480.6	480.6	484.0	484.0
77.5°	374.2	374.9	377.6	376.9	374.2
80°	303.3	306.7	306.7	303.3	303.3
82.5°	232.4	235.8	235.9	235.1	232.4
85°	122.7	129.4	136.3	136.3	136.3
87.5°	36.5	49.2	60.7	61.2	58.5
90°	5.1	15.2	30.9	33.4	33.4
92.5°	62.7	221.7	438.2	210.9	146.6
95°	144.0	513.6	1548.1	791.6	547.7
97.5°	229.9	587.9	2428.0	2028.4	1529.6
100°	295.7	617.6	2707.8	2833.2	2350.4
102.5°	359.5	659.2	2800.4	3435.8	3039.6
105°	470.6	732.1	2813.3	4208.9	3949.9
107.5°	575.5	808.8	2693.4	4606.1	4673.0
110°	645.5	866.7	2584.4	4729.5	4973.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.5	924.7	2479.5	4702.2	5103.0
115°	830.6	1016.7	2342.7	4526.5	5119.9
117.5°	931.9	1106.4	2236.7	4246.2	4907.0
120°	997.8	1166.2	2183.2	4045.0	4723.9
122.5°	1055.4	1221.8	2144.2	3839.3	4516.1
125°	1134.0	1302.5	2103.5	3555.3	4183.9
127.5°	1209.7	1375.6	2077.8	3304.8	3866.1
130°	1254.9	1420.9	2067.5	3161.3	3654.2
132.5°	1300.2	1464.1	2057.2	3034.9	3487.5
135°	1365.5	1523.9	2044.4	2868.2	3247.9
137.5°	1427.7	1579.6	2037.7	2726.7	3038.5
140°	1470.9	1616.8	2031.5	2639.7	2921.3
142.5°	1516.2	1652.0	2027.4	2558.4	2795.8
145°	1578.9	1702.1	2018.7	2452.2	2633.3
147.5°	1646.8	1753.9	2009.9	2362.9	2505.2
150°	1692.1	1785.1	2005.8	2306.8	2425.0
152.5°	1733.2	1814.2	2003.7	2261.0	2357.1
155°	1792.4	1857.7	2000.7	2200.3	2270.7
157.5°	1844.3	1895.1	2001.2	2157.6	2204.8
160°	1877.2	1920.0	2003.2	2132.6	2167.8
162.5°	1906.0	1940.7	2005.3	2111.8	2137.0
165°	1944.1	1966.7	2008.4	2088.3	2098.4
167.5°	1974.9	1988.0	2010.9	2070.2	2074.2
170°	1995.5	2000.5	2010.9	2059.8	2059.8
172.5°	2007.9	2008.9	2013.0	2049.5	2049.5
175°	2021.2	2018.7	2010.9	2039.1	2034.1
177.5°	2026.9	2022.9	2012.5	2028.9	2024.8
180°	2018.7	2018.7	2018.7	2018.7	2018.7

(END OF REPORT)