

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: P564353

Luminaire Tested: **SQ4-PR1-125U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564353
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-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

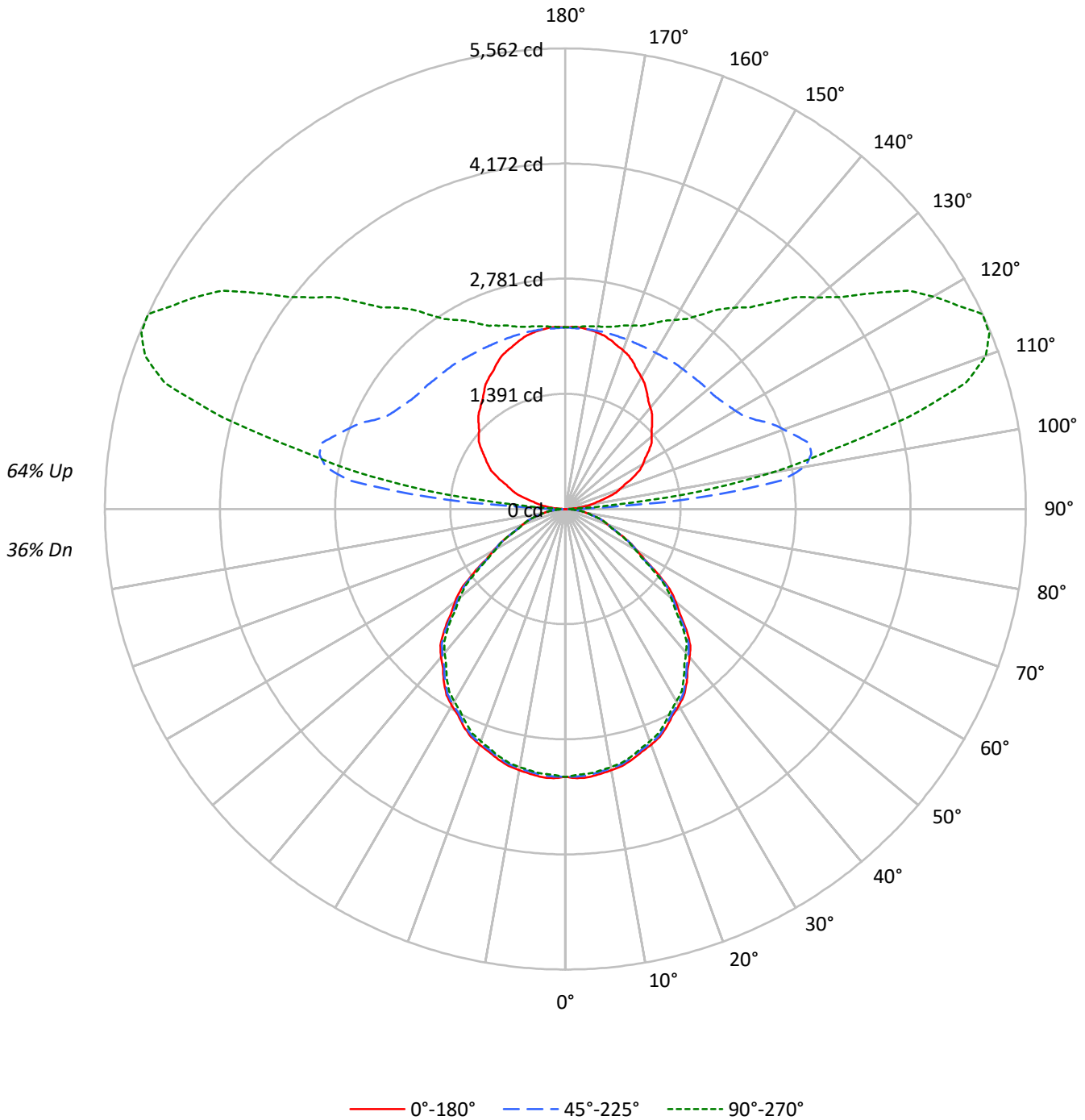
Lumens per Lamp: N/A
Luminaire Lumens: 22249.2 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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



TEST NUMBER: P564353
CATALOG NUMBER: SQ4-PR1-125U-075D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564353

CATALOG NUMBER: SQ4-PR1-125U-075D-830-1D-UNV-STD-W-12

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31				
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26				
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23				
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19				
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17				
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13				
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9594	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4886	4886
75°	4669	4669	4702
80°	4392	4442	4392
85°	3539	3934	3934



TEST NUMBER: P564353

CATALOG NUMBER: SQ4-PR1-125U-075D-830-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	1.4
10°-20°	875.3	3.9
20°-30°	1320.2	5.9
30°-40°	1573.1	7.1
40°-50°	1550.9	7.0
50°-60°	1185.3	5.3
60°-70°	733.5	3.3
70°-80°	416.6	1.9
80°-90°	131.9	0.6
90°-100°	1025.9	4.6
100°-110°	2763.4	12.4
110°-120°	2900.1	13.0
120°-130°	2353.3	10.6
130°-140°	1845.6	8.3
140°-150°	1417.0	6.4
150°-160°	1018.8	4.6
160°-170°	622.4	2.8
170°-180°	209.9	0.9
0°-30°	2501.5	11.2
0°-40°	4074.6	18.3
0°-60°	6810.8	30.6
0°-90°	8092.7	36.4
90°-120°	6689.3	30.1
90°-150°	12305.3	55.3
90°-180°	14156.0	63.6
0°-180°	22249.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3235	3235	3235	3235	3235	
5°	3252	3216	3227	3216	3210	309
15°	3129	3097	3110	3098	3093	883
25°	2901	2865	2881	2851	2848	1335
35°	2555	2525	2533	2500	2497	1595
45°	2068	2040	2031	1995	1990	1584
55°	1354	1332	1324	1301	1296	1213
65°	727	722	730	724	724	737
75°	393	393	393	396	396	415
85°	100	106	112	112	112	117
90°	6	16	34	36	36	15
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

TEST NUMBER: P564353

CATALOG NUMBER: SQ4-PR1-125U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3235.2	3235.2	3235.2	3235.2	3235.2
2.5°	3255.2	3226.9	3235.2	3228.1	3212.9
5°	3251.9	3216.5	3226.8	3215.5	3210.1
7.5°	3226.8	3191.9	3202.3	3191.1	3187.8
10°	3204.5	3171.8	3182.2	3171.0	3165.5
12.5°	3180.0	3145.1	3157.7	3144.2	3138.8
15°	3129.3	3096.6	3109.8	3098.5	3093.1
17.5°	3073.6	3038.7	3051.8	3038.8	3031.8
20°	3029.0	2996.3	3009.5	2989.9	2987.2
22.5°	2979.9	2947.2	2960.4	2934.2	2933.7
25°	2900.8	2865.4	2881.3	2850.6	2847.8
27.5°	2806.6	2773.9	2787.1	2755.8	2752.5
30°	2742.0	2709.3	2722.4	2688.9	2683.4
32.5°	2668.4	2637.9	2648.9	2615.4	2612.1
35°	2555.3	2525.3	2533.0	2499.5	2496.7
37.5°	2426.5	2399.3	2403.7	2366.8	2364.1
40°	2335.1	2307.9	2310.0	2271.0	2268.2
42.5°	2234.8	2207.6	2205.3	2166.2	2163.5
45°	2067.6	2040.4	2031.4	1995.0	1989.6
47.5°	1877.0	1849.8	1833.0	1803.4	1799.5
50°	1738.8	1711.6	1697.0	1671.7	1663.6
52.5°	1589.4	1562.2	1549.9	1526.8	1518.7
55°	1354.3	1332.5	1323.6	1301.2	1295.7
57.5°	1130.8	1116.1	1113.5	1091.7	1089.5
60°	994.8	986.6	986.4	966.9	966.9
62.5°	878.9	872.9	877.2	864.3	862.2
65°	727.3	721.8	730.1	724.5	724.5
67.5°	607.5	607.5	612.5	610.3	610.3
70°	540.6	540.6	543.4	543.4	543.4
72.5°	480.4	478.2	485.4	485.4	483.2
75°	392.9	392.9	392.9	395.7	395.7
77.5°	306.0	306.5	308.7	308.1	306.0
80°	248.0	250.7	250.8	248.0	248.0
82.5°	190.0	192.8	192.8	192.2	190.0
85°	100.3	105.8	111.5	111.5	111.5
87.5°	30.1	41.0	51.3	51.8	49.6
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

TEST NUMBER: P564353

CATALOG NUMBER: SQ4-PR1-125U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)