

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: P564409

Luminaire Tested: **SQ4-PR1-125U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564409
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

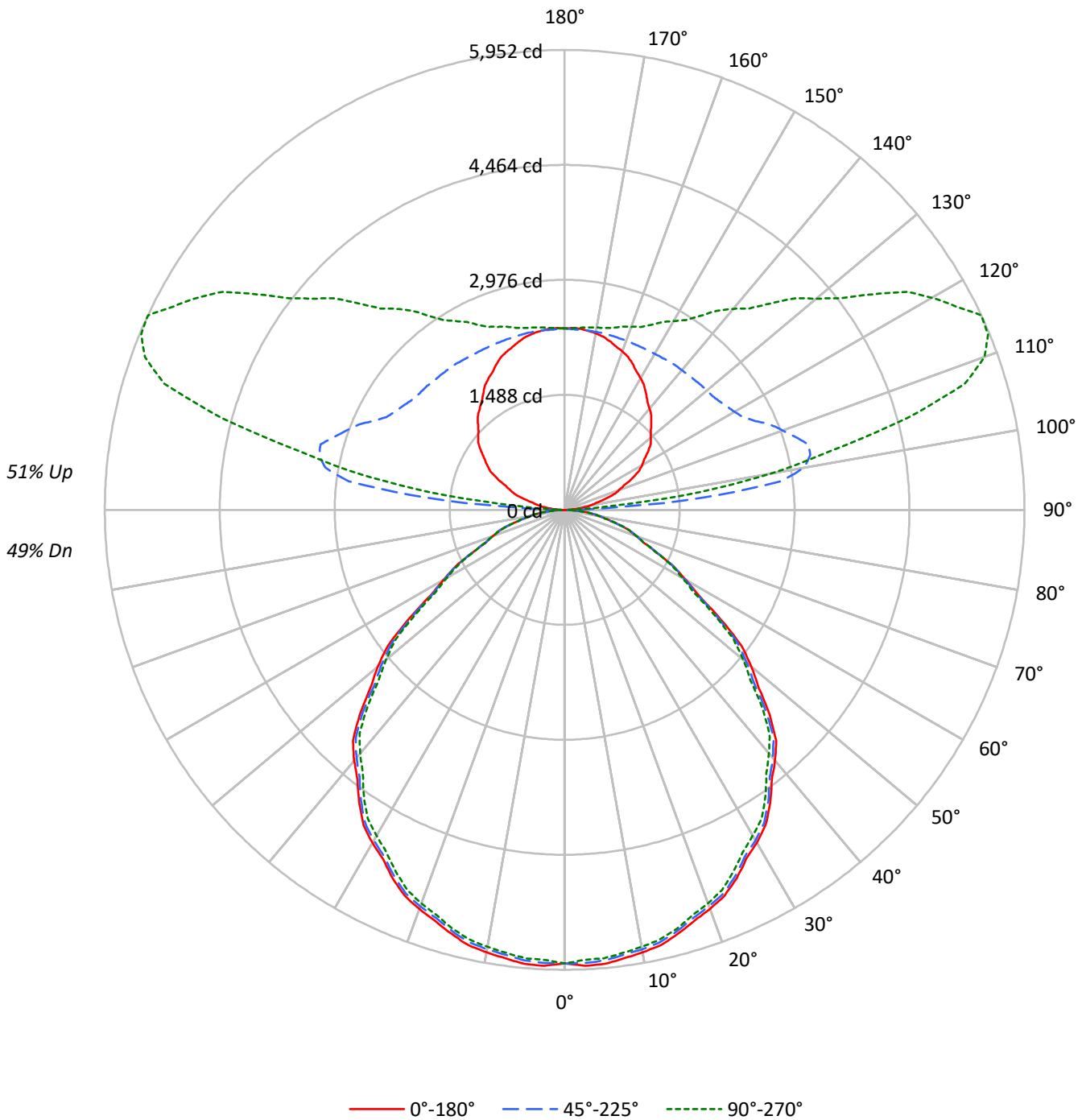
Lumens per Lamp: N/A
Luminaire Lumens: 29829.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P564409
CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564409

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-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	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°	18053	18053	18053
5°	18216	18075	17981
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11102	11009	10792
65°	9603	9640	9566
70°	8820	8865	8865
75°	8471	8471	8532
80°	7970	8058	7970
85°	6422	7135	7135



TEST NUMBER: P564409

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	1.9
10°-20°	1588.2	5.3
20°-30°	2395.5	8.0
30°-40°	2854.3	9.6
40°-50°	2814.1	9.4
50°-60°	2150.7	7.2
60°-70°	1330.9	4.5
70°-80°	755.9	2.5
80°-90°	235.5	0.8
90°-100°	1097.8	3.7
100°-110°	2957.1	9.9
110°-120°	3103.4	10.4
120°-130°	2518.3	8.4
130°-140°	1975.0	6.6
140°-150°	1516.3	5.1
150°-160°	1090.2	3.7
160°-170°	666.1	2.2
170°-180°	224.6	0.8
0°-30°	4538.9	15.2
0°-40°	7393.2	24.8
0°-60°	12357.9	41.4
0°-90°	14680.2	49.2
90°-120°	7158.3	24.0
90°-150°	13168.0	44.1
90°-180°	15149.0	50.8
0°-180°	29829.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5900	5836	5855	5834	5825	560
15°	5678	5619	5643	5622	5612	1602
25°	5263	5199	5228	5172	5167	2422
35°	4636	4582	4596	4535	4530	2894
45°	3752	3702	3686	3620	3610	2874
55°	2457	2418	2402	2361	2351	2202
65°	1320	1310	1325	1315	1315	1337
75°	713	713	713	718	718	753
85°	182	192	202	202	202	212
90°	6	18	36	39	39	19
95°	167	597	1800	920	637	175
105°	547	851	3270	4893	4592	575
115°	966	1182	2723	5262	5952	950
125°	1318	1514	2445	4133	4864	1177
135°	1587	1772	2376	3334	3776	1225
145°	1836	1979	2347	2851	3061	1151
155°	2084	2160	2326	2558	2640	959
165°	2260	2286	2335	2428	2439	637
175°	2350	2347	2338	2370	2365	223
180°	2347	2347	2347	2347	2347	

TEST NUMBER: P564409

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5870.1	5870.1	5870.1	5870.1	5870.1
2.5°	5906.5	5855.1	5870.1	5857.4	5829.7
5°	5900.5	5836.2	5855.0	5834.5	5824.6
7.5°	5855.0	5791.7	5810.5	5790.1	5784.2
10°	5814.5	5755.2	5774.1	5753.6	5743.7
12.5°	5770.0	5706.7	5729.6	5705.1	5695.2
15°	5678.0	5618.7	5642.6	5622.2	5612.3
17.5°	5576.9	5513.6	5537.4	5513.9	5501.0
20°	5496.0	5436.6	5460.6	5425.1	5420.1
22.5°	5407.0	5347.7	5371.6	5324.0	5323.1
25°	5263.4	5199.1	5228.0	5172.3	5167.3
27.5°	5092.5	5033.2	5057.1	5000.3	4994.4
30°	4975.2	4915.9	4939.8	4878.9	4869.0
32.5°	4841.7	4786.3	4806.3	4745.5	4739.6
35°	4636.4	4582.1	4596.0	4535.2	4530.3
37.5°	4402.8	4353.4	4361.4	4294.5	4289.6
40°	4237.0	4187.6	4191.5	4120.6	4115.7
42.5°	4055.0	4005.6	4001.4	3930.5	3925.6
45°	3751.6	3702.2	3685.9	3619.9	3610.1
47.5°	3405.8	3356.3	3325.9	3272.1	3265.2
50°	3155.0	3105.6	3079.2	3033.3	3018.5
52.5°	2884.0	2834.6	2812.2	2770.4	2755.6
55°	2457.3	2417.7	2401.6	2361.0	2351.1
57.5°	2051.8	2025.1	2020.4	1980.9	1976.9
60°	1805.0	1790.2	1789.9	1754.5	1754.5
62.5°	1594.7	1583.8	1591.7	1568.3	1564.4
65°	1319.6	1309.8	1324.7	1314.6	1314.6
67.5°	1102.2	1102.2	1111.3	1107.3	1107.3
70°	980.9	980.9	985.9	985.9	985.9
72.5°	871.7	867.7	880.8	880.7	876.7
75°	712.9	712.9	712.9	718.0	718.0
77.5°	555.2	556.1	560.2	559.1	555.2
80°	450.0	454.9	455.0	450.0	450.0
82.5°	344.8	349.8	349.9	348.8	344.8
85°	182.0	191.9	202.2	202.2	202.2
87.5°	53.8	71.9	88.1	88.6	84.6
90°	6.0	17.7	35.9	38.9	38.9
92.5°	72.9	257.7	509.4	245.2	170.4
95°	167.4	597.1	1799.6	920.3	636.7
97.5°	267.2	683.5	2822.5	2358.0	1778.1
100°	343.8	717.9	3147.8	3293.5	2732.3
102.5°	417.9	766.3	3255.4	3994.1	3533.4
105°	547.0	851.0	3270.3	4892.7	4591.6
107.5°	669.0	940.3	3131.0	5354.5	5432.2
110°	750.3	1007.5	3004.3	5497.9	5781.4

TEST NUMBER: P564409

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	836.4	1074.9	2882.3	5466.1	5932.0
115°	965.6	1181.9	2723.3	5262.0	5951.8
117.5°	1083.3	1286.2	2600.1	4936.1	5704.3
120°	1159.9	1355.7	2538.0	4702.2	5491.4
122.5°	1226.8	1420.3	2492.5	4463.0	5249.9
125°	1318.3	1514.1	2445.3	4132.9	4863.7
127.5°	1406.2	1599.1	2415.4	3841.8	4494.2
130°	1458.8	1651.7	2403.4	3675.0	4247.9
132.5°	1511.4	1702.0	2391.5	3528.0	4054.1
135°	1587.3	1771.5	2376.5	3334.2	3775.5
137.5°	1659.7	1836.2	2368.8	3169.8	3532.2
140°	1709.9	1879.4	2361.6	3068.5	3395.9
142.5°	1762.5	1920.4	2356.8	2974.1	3250.0
145°	1835.5	1978.7	2346.6	2850.6	3061.1
147.5°	1914.4	2038.9	2336.5	2746.8	2912.2
150°	1967.0	2075.1	2331.7	2681.6	2818.9
152.5°	2014.8	2108.9	2329.3	2628.4	2740.0
155°	2083.6	2159.6	2325.7	2557.7	2639.6
157.5°	2144.0	2203.0	2326.3	2508.1	2563.1
160°	2182.2	2231.9	2328.7	2479.1	2520.0
162.5°	2215.7	2256.0	2331.1	2454.9	2484.1
165°	2259.9	2286.2	2334.7	2427.6	2439.3
167.5°	2295.8	2311.0	2337.7	2406.5	2411.2
170°	2319.7	2325.6	2337.7	2394.5	2394.5
172.5°	2334.1	2335.2	2340.1	2382.5	2382.5
175°	2349.6	2346.7	2337.7	2370.4	2364.6
177.5°	2356.2	2351.5	2339.5	2358.5	2353.8
180°	2346.6	2346.6	2346.6	2346.6	2346.6

(END OF REPORT)