

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: P563037

Luminaire Tested: **SQ4-PC3-125U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563037
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

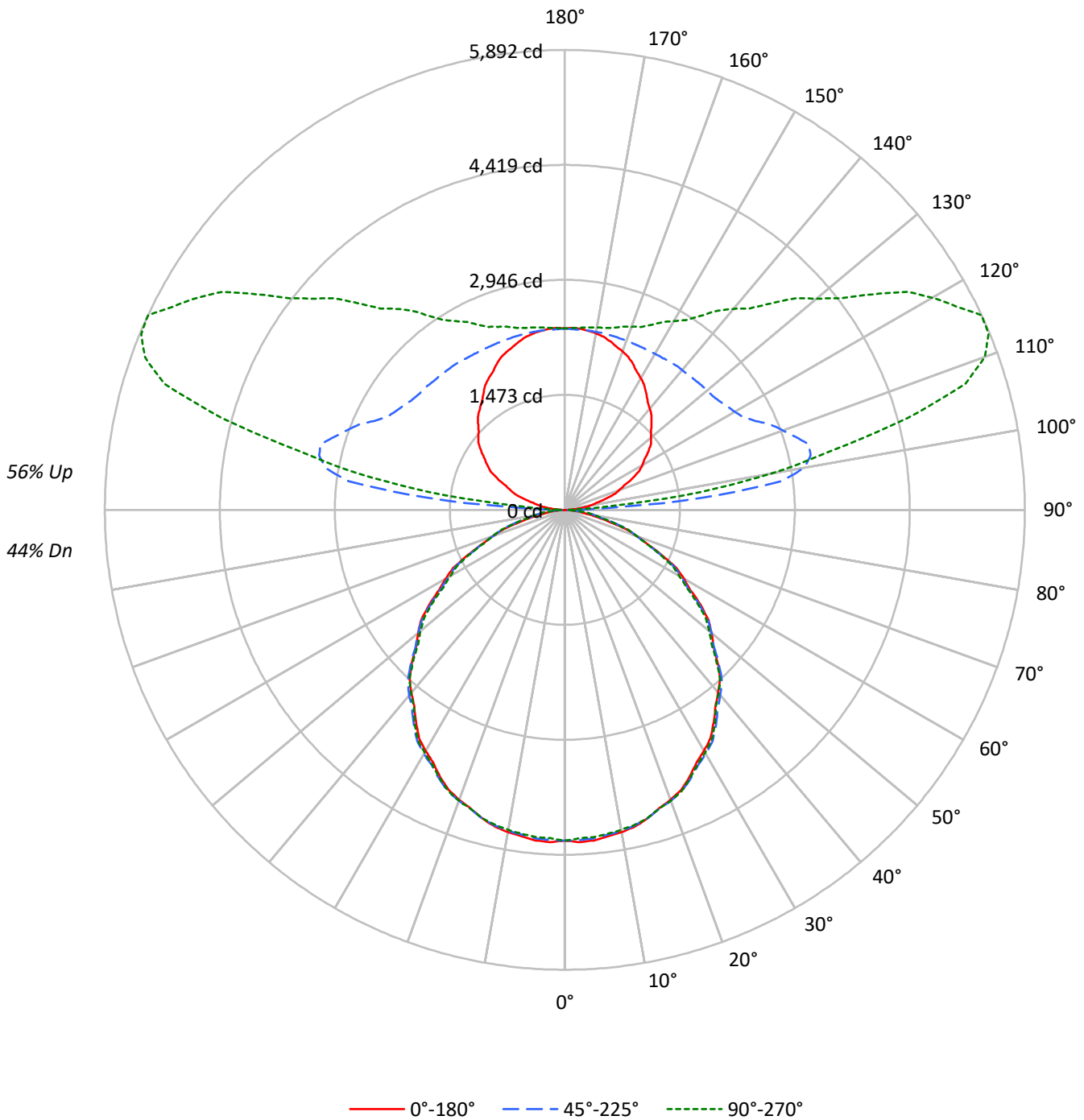
Lumens per Lamp: N/A
Luminaire Lumens: 26565.4 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12993
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12871
30°	12662	12815	12760
35°	12474	12665	12577
40°	12268	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8782
75°	7038	7784	7831
80°	5001	6599	6670
85°	3045	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	1.5
10°-20°	1150.5	4.3
20°-30°	1742.4	6.6
30°-40°	2088.9	7.9
40°-50°	2129.9	8.0
50°-60°	1859.3	7.0
60°-70°	1331.1	5.0
70°-80°	685.6	2.6
80°-90°	178.8	0.7
90°-100°	1086.8	4.1
100°-110°	2927.6	11.0
110°-120°	3072.5	11.6
120°-130°	2493.2	9.4
130°-140°	1955.4	7.4
140°-150°	1501.2	5.7
150°-160°	1079.4	4.1
160°-170°	659.4	2.5
170°-180°	222.4	0.8
0°-30°	3293.8	12.4
0°-40°	5382.7	20.3
0°-60°	9371.9	35.3
0°-90°	11567.4	43.5
90°-120°	7086.9	26.7
90°-150°	13036.8	49.1
90°-180°	14998.0	56.5
0°-180°	26565.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4236	4236	4236	4236	4236	
5°	4252	4210	4225	4213	4209	404
15°	4091	4057	4091	4091	4087	1154
25°	3777	3751	3805	3793	3793	1738
35°	3322	3315	3373	3350	3350	2078
45°	2769	2762	2789	2754	2746	2132
55°	2118	2091	2091	2059	2059	1888
65°	1373	1342	1345	1334	1334	1358
75°	592	619	655	659	659	640
85°	86	132	157	161	157	117
90°	6	18	36	38	38	15
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°	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4261.5	4224.7	4236.4	4226.6	4211.3
5°	4252.1	4209.9	4224.6	4212.8	4208.9
7.5°	4221.5	4179.3	4198.7	4190.8	4187.0
10°	4193.2	4151.0	4173.6	4165.7	4161.9
12.5°	4155.6	4116.5	4142.2	4134.4	4133.6
15°	4091.2	4056.7	4091.2	4091.2	4087.3
17.5°	4010.4	3979.0	4015.9	4018.2	4015.9
20°	3954.0	3919.4	3965.7	3961.9	3965.7
22.5°	3884.9	3856.5	3906.1	3896.0	3899.8
25°	3777.4	3750.6	3804.9	3793.1	3793.1
27.5°	3650.4	3631.2	3690.4	3677.8	3677.8
30°	3565.6	3546.4	3608.8	3593.1	3593.1
32.5°	3471.5	3458.4	3517.8	3498.9	3498.9
35°	3322.4	3314.8	3373.4	3349.9	3349.9
37.5°	3168.7	3161.8	3214.9	3186.5	3177.3
40°	3055.7	3051.9	3098.8	3067.5	3067.5
42.5°	2942.7	2938.9	2979.6	2941.9	2941.9
45°	2769.3	2761.7	2789.0	2753.5	2745.8
47.5°	2580.3	2572.6	2589.7	2551.2	2547.3
50°	2451.6	2443.9	2451.6	2416.2	2412.4
52.5°	2319.8	2306.0	2307.3	2271.9	2271.2
55°	2118.2	2091.3	2090.7	2059.4	2059.4
57.5°	1904.8	1869.5	1872.6	1845.9	1842.0
60°	1757.3	1719.0	1722.0	1698.4	1694.6
62.5°	1613.0	1568.5	1577.7	1551.0	1550.2
65°	1372.9	1342.2	1345.4	1333.7	1333.7
67.5°	1142.3	1113.9	1134.4	1125.0	1124.2
70°	972.8	953.6	980.6	980.6	976.7
72.5°	815.9	815.1	848.8	848.9	851.2
75°	592.3	619.2	655.1	659.0	659.0
77.5°	395.4	443.0	482.5	484.0	483.3
80°	282.4	336.1	372.6	380.4	376.6
82.5°	191.4	248.2	278.5	286.3	282.4
85°	86.3	132.3	156.9	160.7	156.9
87.5°	26.3	56.2	69.9	70.3	64.2
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)