

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: P563077

Luminaire Tested: **SQ4-PC3-125U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563077
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-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25725.2 lumens
Efficiency: N/A
Efficacy: 110.0 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

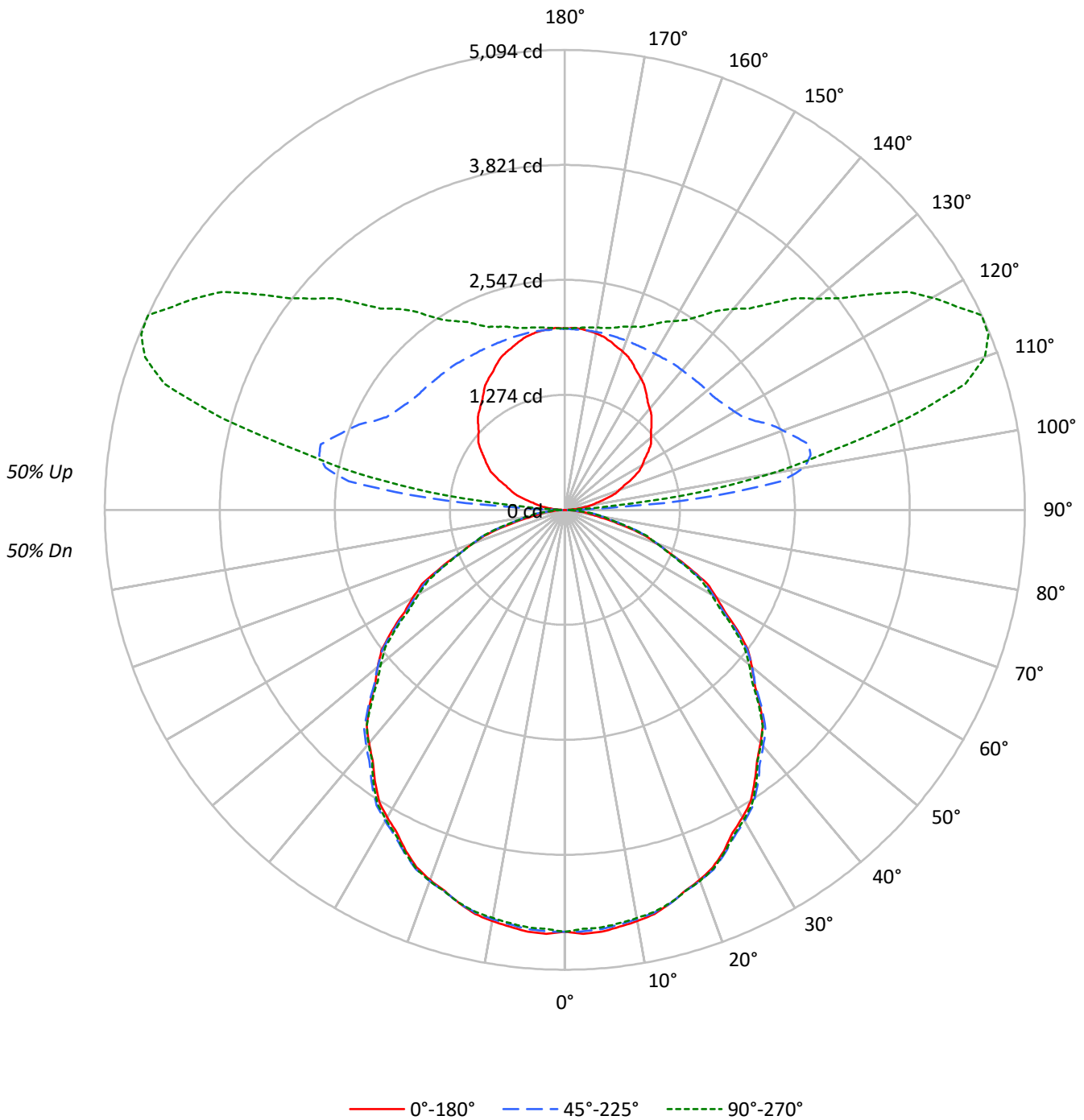
Input Watts (W): 233.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14373	14373	14373
5°	14482	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14243	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13287	13382	13175
50°	12940	12940	12733
55°	12529	12367	12181
60°	11925	11685	11498
65°	11022	10801	10707
70°	9650	9727	9689
75°	7764	8587	8639
80°	5519	7281	7357
85°	3359	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	1.7
10°-20°	1269.3	4.9
20°-30°	1922.2	7.5
30°-40°	2304.4	9.0
40°-50°	2349.7	9.1
50°-60°	2051.2	8.0
60°-70°	1468.4	5.7
70°-80°	756.3	2.9
80°-90°	196.0	0.8
90°-100°	939.5	3.7
100°-110°	2530.9	9.8
110°-120°	2656.1	10.3
120°-130°	2155.4	8.4
130°-140°	1690.4	6.6
140°-150°	1297.8	5.0
150°-160°	933.1	3.6
160°-170°	570.1	2.2
170°-180°	192.2	0.7
0°-30°	3633.7	14.1
0°-40°	5938.1	23.1
0°-60°	10339.0	40.2
0°-90°	12759.7	49.6
90°-120°	6126.5	23.8
90°-150°	11270.0	43.8
90°-180°	12965.0	50.4
0°-180°	25725.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4674	4674	4674	4674	4674	
5°	4691	4644	4661	4648	4643	445
15°	4513	4475	4513	4513	4509	1273
25°	4167	4138	4198	4185	4185	1918
35°	3665	3657	3722	3696	3696	2292
45°	3055	3047	3077	3038	3029	2352
55°	2337	2307	2306	2272	2272	2083
65°	1515	1481	1484	1471	1471	1498
75°	653	683	723	727	727	706
85°	95	146	173	177	173	130
90°	5	15	31	33	33	14
95°	143	511	1540	788	545	150
105°	468	728	2799	4188	3930	492
115°	826	1012	2331	4504	5094	813
125°	1128	1296	2093	3537	4163	1007
135°	1359	1516	2034	2854	3231	1049
145°	1571	1694	2008	2440	2620	985
155°	1783	1848	1990	2189	2259	821
165°	1934	1957	1998	2078	2088	545
175°	2011	2008	2001	2029	2024	191
180°	2008	2008	2008	2008	2008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4673.6	4673.6	4673.6	4673.6	4673.6
2.5°	4701.2	4660.6	4673.6	4662.8	4645.9
5°	4690.9	4644.3	4660.6	4647.5	4643.3
7.5°	4657.1	4610.6	4632.0	4623.3	4619.0
10°	4625.9	4579.4	4604.3	4595.6	4591.3
12.5°	4584.4	4541.2	4569.7	4561.0	4560.2
15°	4513.4	4475.4	4513.4	4513.3	4509.1
17.5°	4424.3	4389.6	4430.4	4432.9	4430.4
20°	4362.0	4323.9	4375.0	4370.7	4375.0
22.5°	4285.8	4254.5	4309.2	4298.0	4302.3
25°	4167.2	4137.6	4197.5	4184.6	4184.6
27.5°	4027.0	4005.9	4071.2	4057.3	4057.3
30°	3933.6	3912.4	3981.2	3963.9	3963.9
32.5°	3829.7	3815.3	3880.8	3860.0	3860.0
35°	3665.3	3656.8	3721.5	3695.6	3695.6
37.5°	3495.6	3488.0	3546.7	3515.3	3505.2
40°	3371.0	3366.8	3418.6	3384.0	3384.0
42.5°	3246.4	3242.2	3287.1	3245.5	3245.5
45°	3055.1	3046.7	3076.8	3037.6	3029.2
47.5°	2846.5	2838.1	2856.9	2814.4	2810.2
50°	2704.6	2696.1	2704.6	2665.6	2661.3
52.5°	2559.2	2544.0	2545.4	2506.4	2505.5
55°	2336.8	2307.2	2306.5	2271.9	2271.9
57.5°	2101.4	2062.4	2065.9	2036.4	2032.1
60°	1938.7	1896.3	1899.7	1873.7	1869.4
62.5°	1779.4	1730.3	1740.5	1711.0	1710.2
65°	1514.6	1480.7	1484.3	1471.3	1471.3
67.5°	1260.1	1228.8	1251.5	1241.1	1240.2
70°	1073.2	1052.0	1081.8	1081.7	1077.5
72.5°	900.1	899.2	936.4	936.5	939.0
75°	653.4	683.0	722.7	727.0	727.0
77.5°	436.2	488.7	532.3	534.0	533.1
80°	311.6	370.8	411.1	419.7	415.4
82.5°	211.2	273.8	307.2	315.8	311.6
85°	95.2	146.0	173.1	177.3	173.1
87.5°	28.7	61.2	75.4	75.7	69.0
90°	5.1	15.1	30.7	33.3	33.3
92.5°	62.4	220.5	436.0	209.9	145.8
95°	143.3	511.0	1540.2	787.6	545.0
97.5°	228.7	585.0	2415.7	2018.1	1521.8
100°	294.2	614.4	2694.1	2818.8	2338.5
102.5°	357.7	655.9	2786.2	3418.4	3024.1
105°	468.2	728.4	2799.0	4187.5	3929.8
107.5°	572.6	804.7	2679.8	4582.7	4649.3
110°	642.2	862.3	2571.3	4705.4	4948.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	715.9	920.0	2466.9	4678.3	5077.1
115°	826.4	1011.5	2330.8	4503.6	5093.9
117.5°	927.2	1100.8	2225.4	4224.7	4882.1
120°	992.7	1160.3	2172.2	4024.5	4699.9
122.5°	1050.0	1215.6	2133.3	3819.8	4493.2
125°	1128.3	1295.9	2092.8	3537.2	4162.7
127.5°	1203.5	1368.6	2067.3	3288.1	3846.4
130°	1248.5	1413.6	2057.0	3145.3	3635.6
132.5°	1293.6	1456.7	2046.8	3019.5	3469.8
135°	1358.6	1516.2	2034.0	2853.6	3231.4
137.5°	1420.5	1571.6	2027.3	2712.9	3023.1
140°	1463.5	1608.5	2021.2	2626.3	2906.4
142.5°	1508.5	1643.6	2017.1	2545.4	2781.6
145°	1570.9	1693.5	2008.4	2439.8	2619.9
147.5°	1638.5	1745.0	1999.7	2350.9	2492.5
150°	1683.5	1776.0	1995.6	2295.1	2412.6
152.5°	1724.4	1805.0	1993.6	2249.5	2345.1
155°	1783.3	1848.3	1990.5	2189.1	2259.1
157.5°	1834.9	1885.5	1991.0	2146.6	2193.6
160°	1867.7	1910.2	1993.1	2121.8	2156.8
162.5°	1896.3	1930.9	1995.1	2101.1	2126.1
165°	1934.2	1956.7	1998.2	2077.7	2087.7
167.5°	1964.9	1977.9	2000.7	2059.7	2063.7
170°	1985.4	1990.4	2000.7	2049.3	2049.3
172.5°	1997.7	1998.7	2002.8	2039.1	2039.1
175°	2011.0	2008.5	2000.7	2028.8	2023.8
177.5°	2016.6	2012.6	2002.3	2018.6	2014.5
180°	2008.4	2008.4	2008.4	2008.4	2008.4

(END OF REPORT)