

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: P564421

Luminaire Tested: **SQ4-PR1-125U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564421
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-940-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

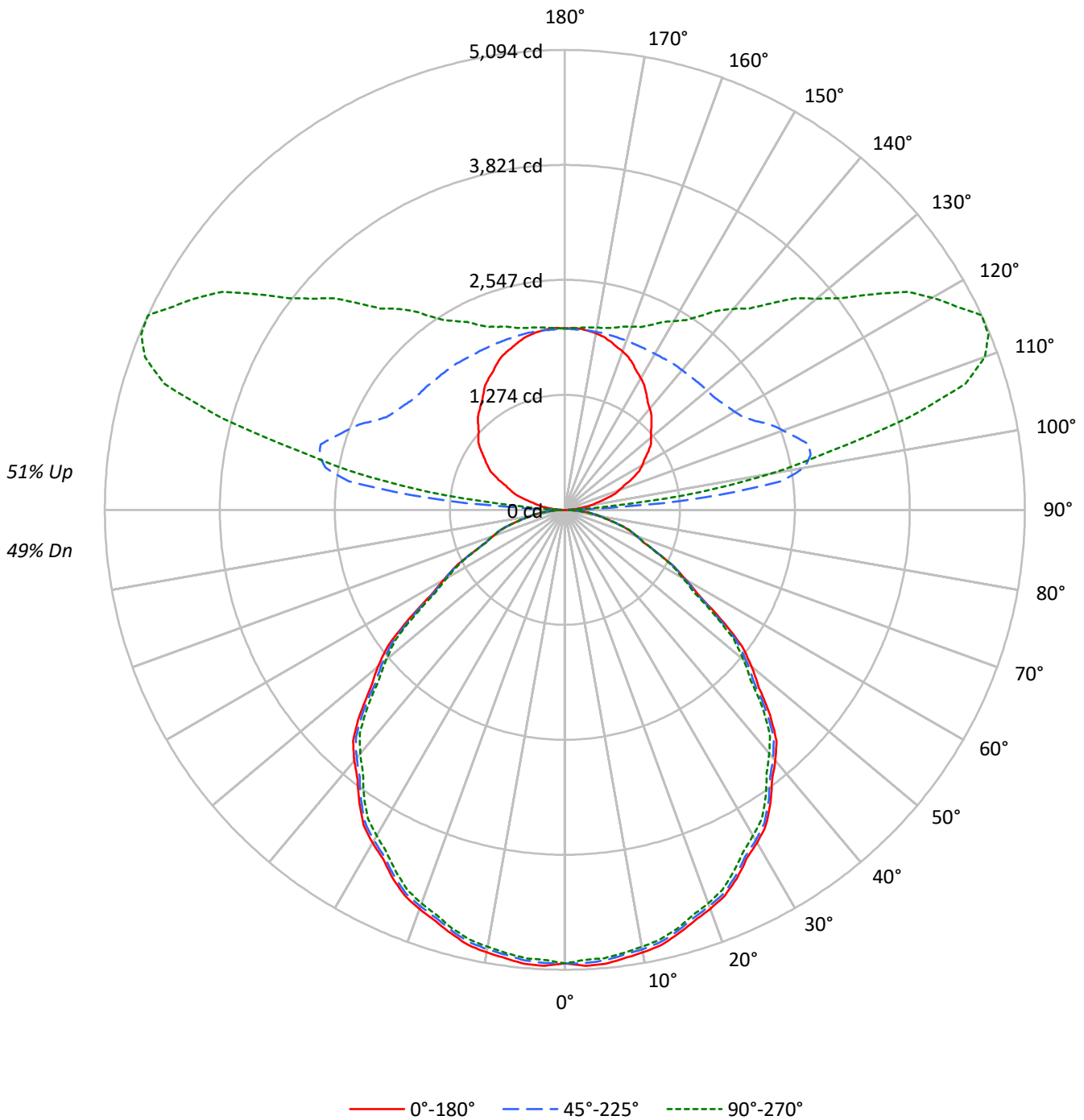
Lumens per Lamp: N/A
Luminaire Lumens: 25529.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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



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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	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°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15352
15°	15472	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15121	15014	14798
35°	14898	14768	14557
40°	14558	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8187
70°	7549	7587	7587
75°	7251	7251	7302
80°	6820	6898	6820
85°	5498	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	1.9
10°-20°	1359.3	5.3
20°-30°	2050.3	8.0
30°-40°	2442.9	9.6
40°-50°	2408.5	9.4
50°-60°	1840.7	7.2
60°-70°	1139.1	4.5
70°-80°	647.0	2.5
80°-90°	201.5	0.8
90°-100°	939.5	3.7
100°-110°	2530.9	9.9
110°-120°	2656.1	10.4
120°-130°	2155.4	8.4
130°-140°	1690.4	6.6
140°-150°	1297.8	5.1
150°-160°	933.1	3.7
160°-170°	570.1	2.2
170°-180°	192.2	0.8
0°-30°	3884.7	15.2
0°-40°	6327.6	24.8
0°-60°	10576.7	41.4
0°-90°	12564.3	49.2
90°-120°	6126.5	24.0
90°-150°	11270.0	44.1
90°-180°	12965.0	50.8
0°-180°	25529.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5024	5024	5024	5024	5024	
5°	5050	4995	5011	4994	4985	479
15°	4860	4809	4829	4812	4803	1371
25°	4505	4450	4474	4427	4423	2073
35°	3968	3922	3934	3882	3877	2477
45°	3211	3169	3155	3098	3090	2460
55°	2103	2069	2056	2021	2012	1884
65°	1129	1121	1134	1125	1125	1144
75°	610	610	610	614	614	644
85°	156	164	173	173	173	181
90°	5	15	31	33	33	16
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°	5024.1	5024.1	5024.1	5024.1	5024.1
2.5°	5055.2	5011.2	5024.1	5013.1	4989.4
5°	5050.0	4995.0	5011.1	4993.6	4985.1
7.5°	5011.1	4956.9	4973.0	4955.6	4950.5
10°	4976.5	4925.7	4941.8	4924.3	4915.9
12.5°	4938.4	4884.2	4903.8	4882.8	4874.3
15°	4859.6	4808.8	4829.3	4811.8	4803.4
17.5°	4773.1	4718.9	4739.3	4719.2	4708.2
20°	4703.8	4653.1	4673.5	4643.2	4638.9
22.5°	4627.7	4576.9	4597.4	4556.7	4555.8
25°	4504.8	4449.8	4474.5	4426.8	4422.6
27.5°	4358.5	4307.7	4328.2	4279.6	4274.6
30°	4258.1	4207.3	4227.8	4175.7	4167.2
32.5°	4143.9	4096.5	4113.6	4061.5	4056.5
35°	3968.2	3921.6	3933.6	3881.5	3877.3
37.5°	3768.3	3725.9	3732.8	3675.6	3671.3
40°	3626.3	3584.0	3587.4	3526.7	3522.5
42.5°	3470.5	3428.2	3424.7	3364.0	3359.8
45°	3210.9	3168.6	3154.6	3098.2	3089.7
47.5°	2914.9	2872.6	2846.5	2800.5	2794.6
50°	2700.3	2658.0	2635.4	2596.1	2583.4
52.5°	2468.3	2426.0	2406.9	2371.1	2358.4
55°	2103.1	2069.2	2055.5	2020.7	2012.2
57.5°	1756.0	1733.2	1729.2	1695.4	1692.0
60°	1544.9	1532.2	1531.9	1501.6	1501.6
62.5°	1364.8	1355.5	1362.3	1342.3	1338.9
65°	1129.4	1121.0	1133.8	1125.1	1125.1
67.5°	943.4	943.4	951.2	947.7	947.7
70°	839.5	839.5	843.8	843.8	843.8
72.5°	746.0	742.7	753.8	753.7	750.4
75°	610.2	610.2	610.2	614.5	614.5
77.5°	475.1	476.0	479.5	478.5	475.1
80°	385.1	389.4	389.5	385.1	385.1
82.5°	295.1	299.4	299.5	298.5	295.1
85°	155.8	164.2	173.1	173.1	173.1
87.5°	46.0	61.6	75.4	75.8	72.4
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)