

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: P564402

Luminaire Tested: **SQ4-PR1-125U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564402
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

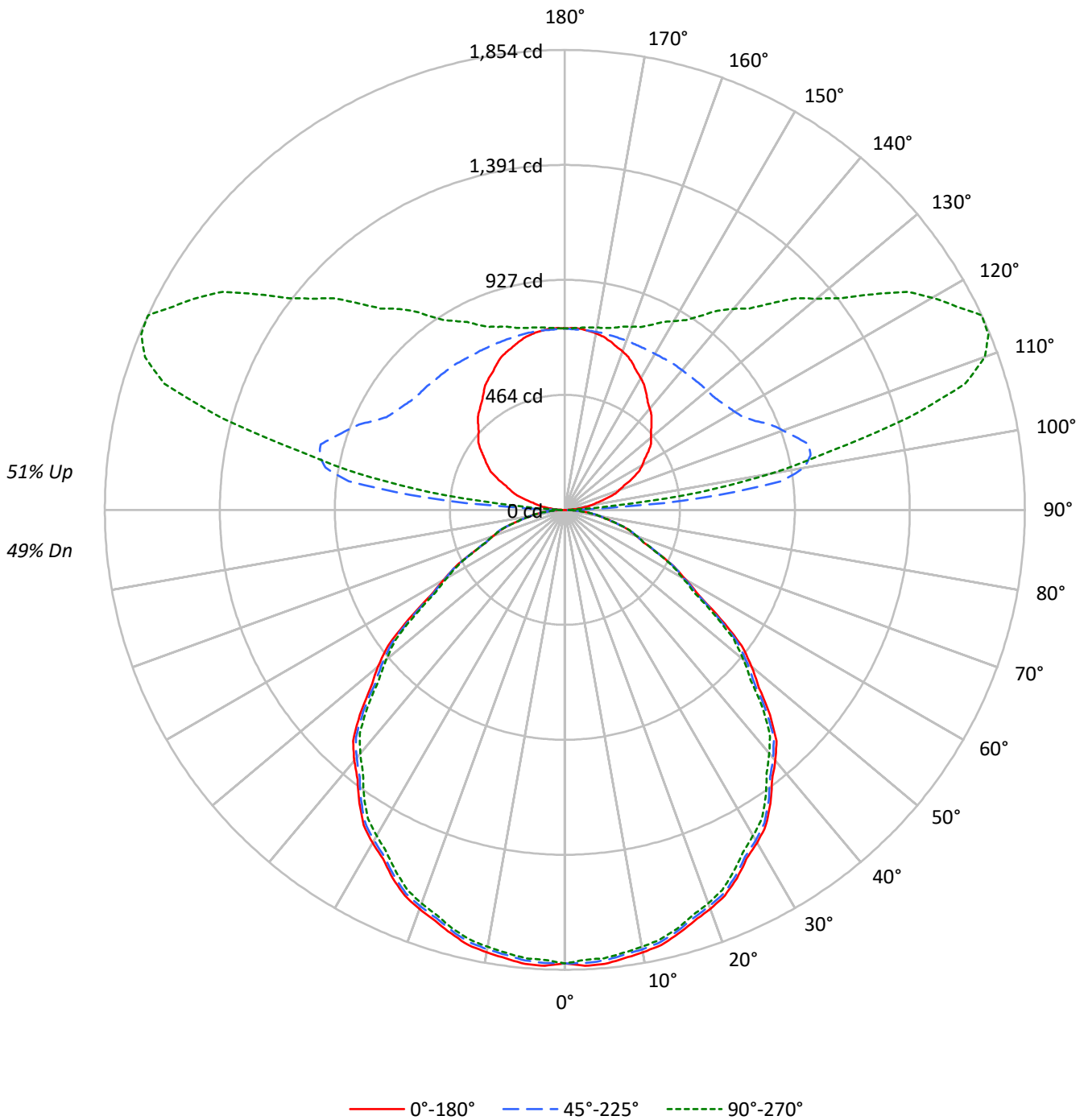
Lumens per Lamp: N/A
Luminaire Lumens: 9291.6 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16761
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16511	16393	16158
35°	16266	16124	15895
40°	15896	15725	15440
45°	15248	14980	14672
50°	14107	13766	13495
55°	12312	12033	11781
60°	10376	10287	10084
65°	8975	9007	8940
70°	8241	8284	8284
75°	7917	7917	7971
80°	7449	7529	7449
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	1.9
10°-20°	494.7	5.3
20°-30°	746.2	8.0
30°-40°	889.1	9.6
40°-50°	876.6	9.4
50°-60°	669.9	7.2
60°-70°	414.6	4.5
70°-80°	235.5	2.5
80°-90°	73.3	0.8
90°-100°	342.0	3.7
100°-110°	921.1	9.9
110°-120°	966.7	10.4
120°-130°	784.4	8.4
130°-140°	615.2	6.6
140°-150°	472.3	5.1
150°-160°	339.6	3.7
160°-170°	207.5	2.2
170°-180°	70.0	0.8
0°-30°	1413.8	15.2
0°-40°	2302.9	24.8
0°-60°	3849.4	41.4
0°-90°	4572.8	49.2
90°-120°	2229.8	24.0
90°-150°	4101.8	44.1
90°-180°	4719.0	50.8
0°-180°	9291.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1838	1818	1824	1817	1814	174
15°	1769	1750	1758	1751	1748	499
25°	1640	1620	1628	1611	1610	755
35°	1444	1427	1432	1413	1411	901
45°	1169	1153	1148	1128	1124	895
55°	765	753	748	735	732	686
65°	411	408	413	410	410	416
75°	222	222	222	224	224	235
85°	57	60	63	63	63	66
90°	2	6	11	12	12	6
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.5	1828.5	1828.5	1828.5	1828.5
2.5°	1839.9	1823.8	1828.5	1824.5	1815.9
5°	1838.0	1818.0	1823.8	1817.4	1814.3
7.5°	1823.8	1804.1	1809.9	1803.6	1801.7
10°	1811.2	1792.7	1798.6	1792.2	1789.1
12.5°	1797.3	1777.6	1784.7	1777.1	1774.0
15°	1768.7	1750.2	1757.6	1751.3	1748.2
17.5°	1737.2	1717.5	1724.9	1717.6	1713.6
20°	1712.0	1693.5	1701.0	1689.9	1688.4
22.5°	1684.3	1665.8	1673.2	1658.4	1658.1
25°	1639.5	1619.5	1628.5	1611.1	1609.6
27.5°	1586.3	1567.8	1575.3	1557.6	1555.7
30°	1549.8	1531.3	1538.7	1519.8	1516.7
32.5°	1508.2	1490.9	1497.2	1478.2	1476.4
35°	1444.2	1427.3	1431.6	1412.7	1411.2
37.5°	1371.5	1356.1	1358.6	1337.7	1336.2
40°	1319.8	1304.4	1305.6	1283.6	1282.0
42.5°	1263.1	1247.7	1246.4	1224.3	1222.8
45°	1168.6	1153.2	1148.1	1127.6	1124.5
47.5°	1060.9	1045.5	1036.0	1019.3	1017.1
50°	982.8	967.4	959.1	944.9	940.2
52.5°	898.4	883.0	876.0	863.0	858.4
55°	765.4	753.1	748.1	735.4	732.4
57.5°	639.1	630.8	629.4	617.0	615.8
60°	562.3	557.6	557.5	546.5	546.5
62.5°	496.7	493.4	495.8	488.5	487.3
65°	411.1	408.0	412.6	409.5	409.5
67.5°	343.3	343.3	346.2	344.9	344.9
70°	305.5	305.5	307.1	307.1	307.1
72.5°	271.5	270.3	274.4	274.3	273.1
75°	222.1	222.1	222.1	223.6	223.6
77.5°	172.9	173.2	174.5	174.2	172.9
80°	140.2	141.7	141.7	140.2	140.2
82.5°	107.4	109.0	109.0	108.6	107.4
85°	56.7	59.8	63.0	63.0	63.0
87.5°	16.8	22.4	27.4	27.6	26.4
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)