

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: P565084

Luminaire Tested: **SQ4-PW1-125U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565084
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

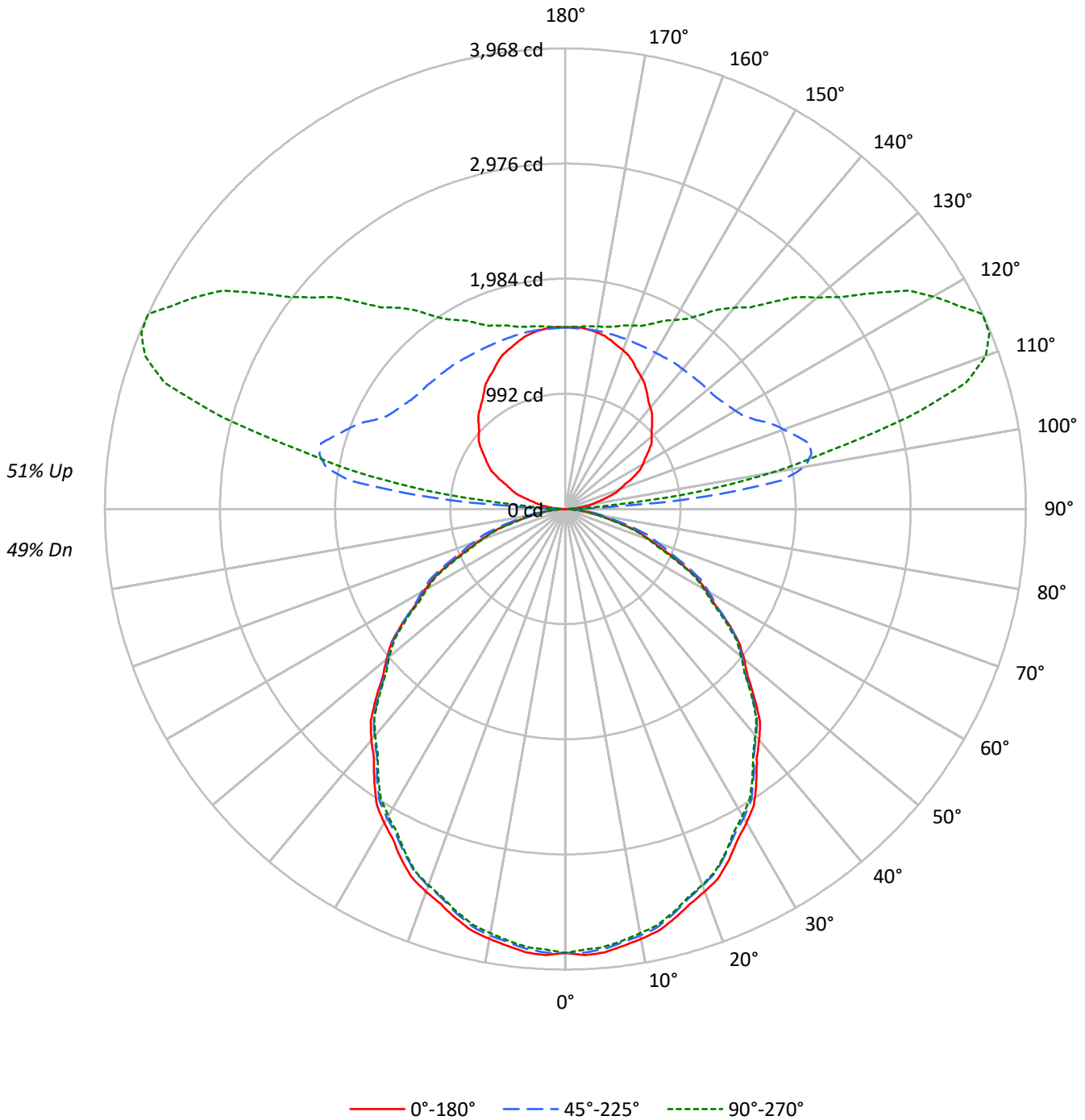
Lumens per Lamp: N/A
Luminaire Lumens: 19836.8 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16626	16375	16267
35°	16154	15927	15831
40°	15650	15407	15346
45°	15042	14843	14777
50°	14418	14297	14200
55°	13745	13745	13528
60°	12907	13155	12689
65°	11811	12399	11516
70°	10411	11412	10139
75°	8892	10213	8652
80°	6894	8597	6984
85°	4462	6600	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	1.8
10°-20°	1017.1	5.1
20°-30°	1508.7	7.6
30°-40°	1765.3	8.9
40°-50°	1757.5	8.9
50°-60°	1517.6	7.7
60°-70°	1092.4	5.5
70°-80°	572.9	2.9
80°-90°	145.7	0.7
90°-100°	731.8	3.7
100°-110°	1971.4	9.9
110°-120°	2068.9	10.4
120°-130°	1678.9	8.5
130°-140°	1316.7	6.6
140°-150°	1010.9	5.1
150°-160°	726.8	3.7
160°-170°	444.1	2.2
170°-180°	149.7	0.8
0°-30°	2886.1	14.5
0°-40°	4651.4	23.4
0°-60°	7926.5	40.0
0°-90°	9737.5	49.1
90°-120°	4772.2	24.1
90°-150°	8778.6	44.3
90°-180°	10099.0	50.9
0°-180°	19836.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3826	3826	3826	3826	3826	
5°	3836	3793	3806	3795	3789	363
15°	3650	3604	3610	3603	3597	1029
25°	3337	3281	3276	3256	3266	1534
35°	2868	2829	2828	2801	2811	1793
45°	2306	2286	2275	2268	2265	1779
55°	1709	1706	1709	1685	1682	1525
65°	1082	1115	1136	1091	1055	1072
75°	499	545	573	535	485	535
85°	84	111	125	118	111	111
90°	4	12	24	26	26	11
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

TEST NUMBER: P565084

CATALOG NUMBER: SQ4-PW1-125U-125D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3847.4	3815.7	3825.8	3817.3	3798.8
5°	3835.9	3793.1	3805.6	3795.3	3788.7
7.5°	3796.8	3757.3	3766.5	3755.6	3751.6
10°	3761.7	3722.2	3731.4	3717.8	3711.2
12.5°	3721.3	3679.1	3688.3	3674.7	3670.7
15°	3650.5	3604.4	3610.1	3603.2	3596.6
17.5°	3568.3	3521.5	3522.4	3511.6	3510.3
20°	3508.9	3459.5	3455.0	3441.7	3448.3
22.5°	3444.2	3392.1	3387.6	3368.9	3378.2
25°	3337.0	3281.0	3276.4	3256.4	3266.2
27.5°	3213.0	3157.6	3157.7	3129.6	3140.2
30°	3121.3	3068.6	3074.1	3040.7	3053.9
32.5°	3024.2	2976.8	2979.7	2946.3	2959.5
35°	2868.5	2828.9	2828.1	2801.3	2811.2
37.5°	2709.4	2674.5	2669.0	2653.5	2656.1
40°	2598.8	2569.2	2558.4	2548.3	2548.3
42.5°	2482.9	2455.9	2445.1	2437.7	2435.0
45°	2305.6	2285.8	2275.2	2268.4	2265.1
47.5°	2130.3	2111.9	2102.7	2097.9	2094.6
50°	2009.0	1995.8	1992.1	1981.9	1978.6
52.5°	1887.6	1879.7	1876.2	1863.3	1860.0
55°	1709.0	1705.7	1709.0	1685.3	1682.0
57.5°	1522.9	1528.2	1539.1	1507.2	1499.3
60°	1398.9	1412.0	1425.8	1388.4	1375.3
62.5°	1272.1	1293.2	1312.6	1269.7	1251.2
65°	1082.0	1115.0	1135.9	1091.3	1055.0
67.5°	898.6	939.5	964.7	916.6	875.7
70°	771.9	818.0	846.1	797.8	751.7
72.5°	661.3	712.8	735.5	690.0	643.8
75°	498.9	545.0	573.0	534.8	485.4
77.5°	353.9	397.4	420.7	387.4	346.5
80°	259.5	305.7	323.6	295.9	262.9
82.5°	184.0	222.3	234.6	217.9	195.5
85°	84.3	110.6	124.7	117.8	111.2
87.5°	22.4	42.4	56.0	56.5	59.1
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

TEST NUMBER: P565084

CATALOG NUMBER: SQ4-PW1-125U-125D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)