

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: P565060

Luminaire Tested: **SQ4-PW1-125U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565060
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-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

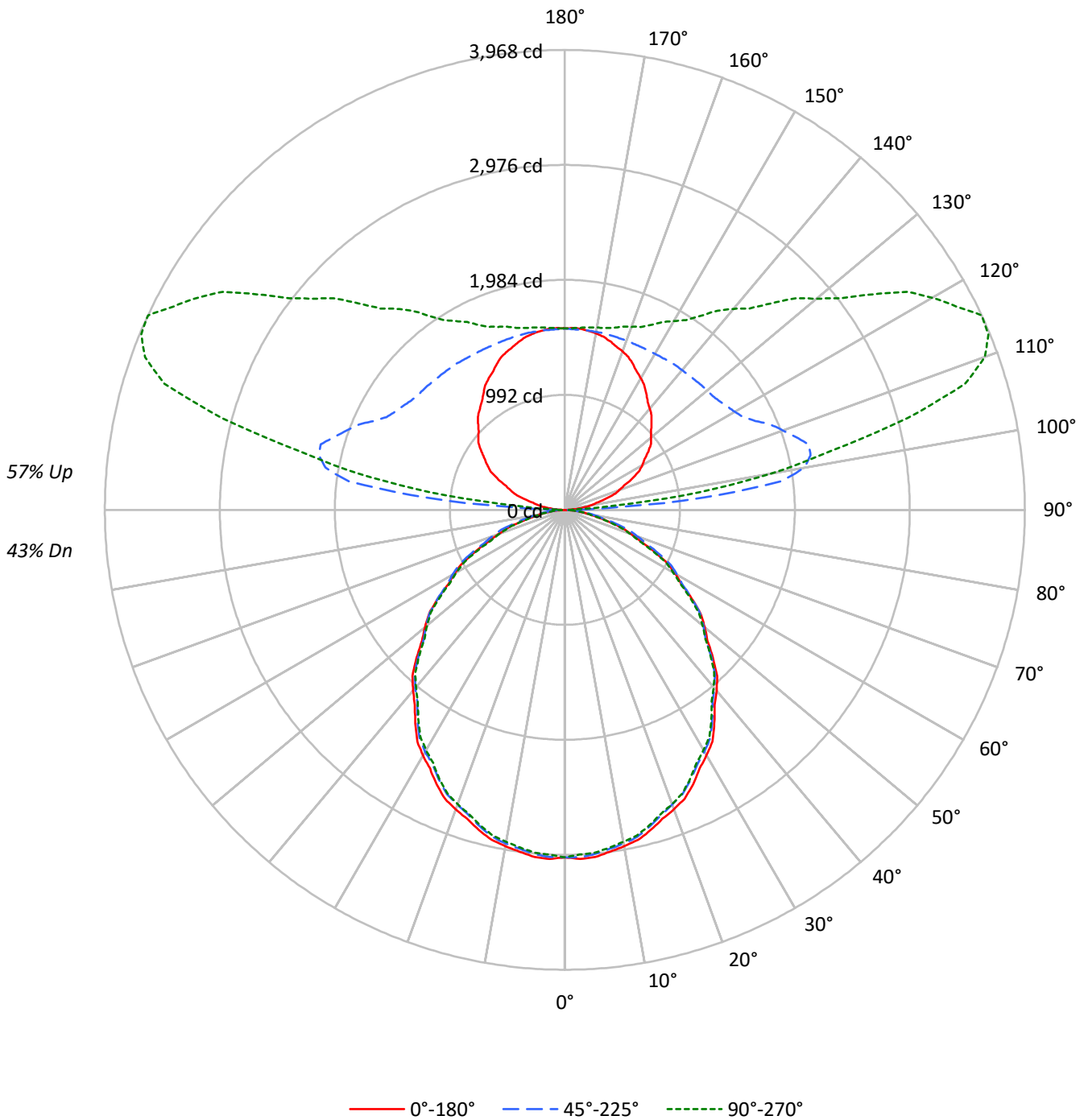
Lumens per Lamp: N/A
Luminaire Lumens: 17730.5 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.3
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13510	13460
20°	13499	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11631	11580
50°	11298	11203	11127
55°	10771	10771	10600
60°	10114	10308	9943
65°	9255	9716	9024
70°	8159	8942	7944
75°	6967	8003	6780
80°	5403	6737	5473
85°	3493	5171	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.6
10°-20°	797.0	4.5
20°-30°	1182.2	6.7
30°-40°	1383.3	7.8
40°-50°	1377.2	7.8
50°-60°	1189.2	6.7
60°-70°	856.0	4.8
70°-80°	448.9	2.5
80°-90°	115.0	0.6
90°-100°	731.8	4.1
100°-110°	1971.4	11.1
110°-120°	2068.9	11.7
120°-130°	1678.9	9.5
130°-140°	1316.7	7.4
140°-150°	1010.9	5.7
150°-160°	726.8	4.1
160°-170°	444.1	2.5
170°-180°	149.7	0.8
0°-30°	2261.6	12.8
0°-40°	3644.9	20.6
0°-60°	6211.3	35.0
0°-90°	7631.2	43.0
90°-120°	4772.2	26.9
90°-150°	8778.6	49.5
90°-180°	10099.0	57.0
0°-180°	17730.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2998	2998	2998	2998	2998	
5°	3006	2972	2982	2974	2969	285
15°	2861	2824	2829	2824	2818	806
25°	2615	2571	2567	2552	2560	1202
35°	2248	2217	2216	2195	2203	1405
45°	1807	1791	1783	1778	1775	1394
55°	1339	1337	1339	1321	1318	1195
65°	848	874	890	855	827	840
75°	391	427	449	419	380	419
85°	66	87	98	92	87	87
90°	4	12	24	26	26	10
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: P565060

CATALOG NUMBER: SQ4-PW1-125U-100D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2998.0	2998.0	2998.0	2998.0	2998.0
2.5°	3014.9	2990.1	2998.0	2991.3	2976.8
5°	3005.9	2972.3	2982.1	2974.1	2968.9
7.5°	2975.2	2944.2	2951.5	2942.9	2939.8
10°	2947.8	2916.8	2924.0	2913.3	2908.1
12.5°	2916.1	2883.0	2890.2	2879.5	2876.5
15°	2860.6	2824.4	2828.9	2823.5	2818.3
17.5°	2796.2	2759.5	2760.2	2751.8	2750.7
20°	2749.7	2710.9	2707.4	2697.0	2702.1
22.5°	2699.0	2658.1	2654.6	2639.9	2647.2
25°	2615.0	2571.0	2567.4	2551.7	2559.5
27.5°	2517.8	2474.4	2474.4	2452.4	2460.7
30°	2445.9	2404.6	2408.9	2382.7	2393.1
32.5°	2369.8	2332.6	2335.0	2308.8	2319.1
35°	2247.8	2216.8	2216.1	2195.2	2202.9
37.5°	2123.1	2095.8	2091.4	2079.3	2081.4
40°	2036.5	2013.3	2004.8	1996.9	1996.9
42.5°	1945.6	1924.5	1916.0	1910.2	1908.1
45°	1806.7	1791.2	1782.9	1777.6	1775.0
47.5°	1669.3	1654.9	1647.7	1643.9	1641.3
50°	1574.3	1563.9	1561.0	1553.1	1550.5
52.5°	1479.2	1473.0	1470.2	1460.1	1457.5
55°	1339.2	1336.6	1339.2	1320.6	1318.0
57.5°	1193.4	1197.5	1206.0	1181.1	1174.9
60°	1096.2	1106.5	1117.3	1088.0	1077.7
62.5°	996.9	1013.4	1028.5	994.9	980.5
65°	847.9	873.7	890.1	855.2	826.7
67.5°	704.2	736.2	756.0	718.3	686.2
70°	604.9	641.0	663.0	625.2	589.0
72.5°	518.2	558.5	576.3	540.7	504.5
75°	390.9	427.1	449.0	419.1	380.4
77.5°	277.3	311.4	329.6	303.6	271.5
80°	203.4	239.5	253.6	231.9	206.0
82.5°	144.2	174.2	183.8	170.8	153.2
85°	66.0	86.7	97.7	92.3	87.2
87.5°	17.7	33.7	44.9	45.4	47.4
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: P565060

CATALOG NUMBER: SQ4-PW1-125U-100D-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)