

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: P563044

Luminaire Tested: **SQ4-PC3-125U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563044
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-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

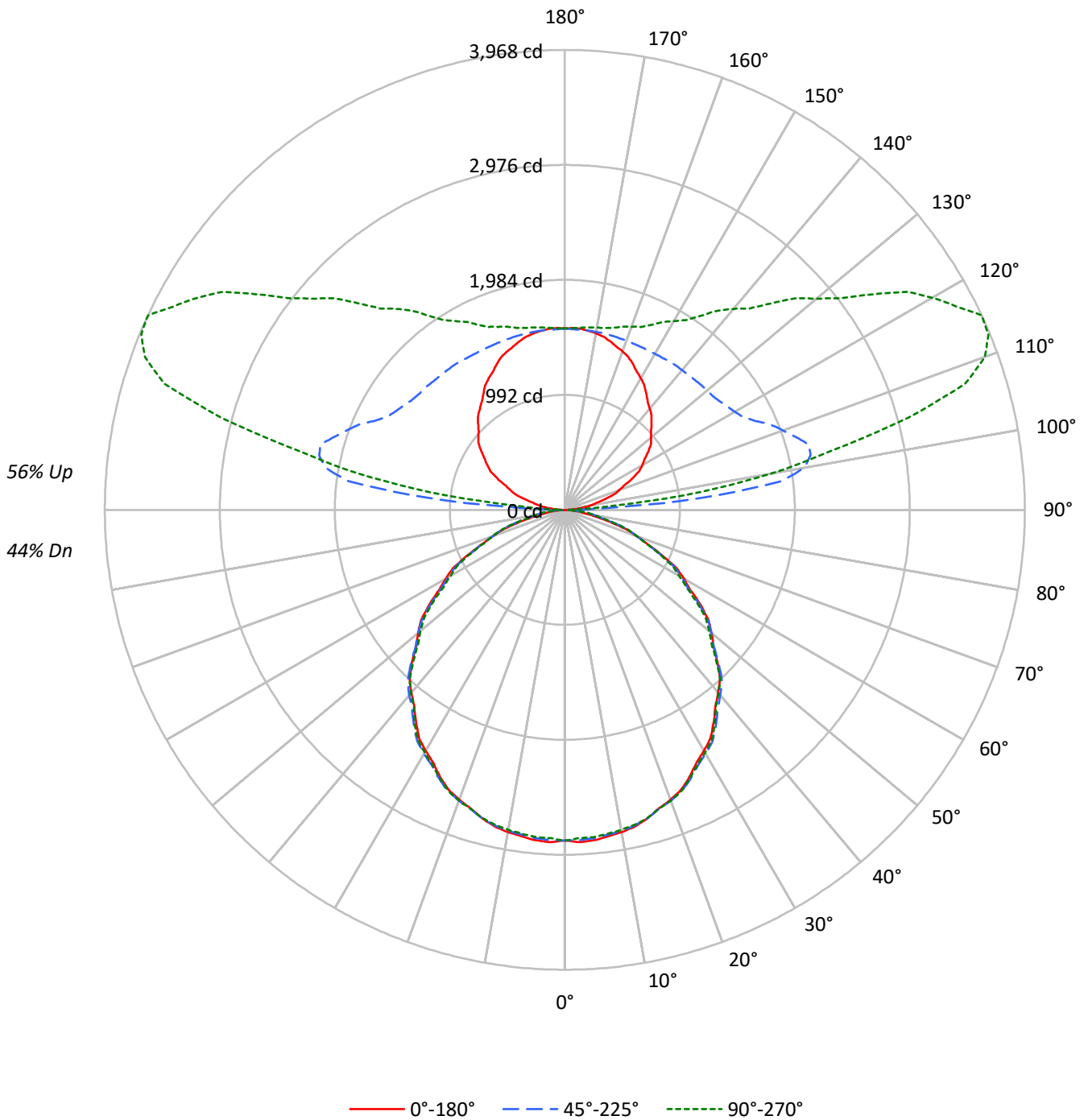
Lumens per Lamp: N/A
Luminaire Lumens: 17888.4 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13145
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12945	12888
35°	12599	12793	12703
40°	12391	12566	12438
45°	12166	12252	12063
50°	11848	11848	11658
55°	11471	11323	11153
60°	10917	10699	10528
65°	10091	9889	9803
70°	8836	8906	8871
75°	7108	7862	7908
80°	5053	6665	6737
85°	3075	5595	5595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.5
10°-20°	774.7	4.3
20°-30°	1173.3	6.6
30°-40°	1406.6	7.9
40°-50°	1434.2	8.0
50°-60°	1252.0	7.0
60°-70°	896.3	5.0
70°-80°	461.6	2.6
80°-90°	120.4	0.7
90°-100°	731.8	4.1
100°-110°	1971.4	11.0
110°-120°	2068.9	11.6
120°-130°	1678.9	9.4
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°	2218.0	12.4
0°-40°	3624.6	20.3
0°-60°	6310.8	35.3
0°-90°	7789.2	43.5
90°-120°	4772.2	26.7
90°-150°	8778.6	49.1
90°-180°	10099.0	56.5
0°-180°	17888.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2863	2835	2845	2837	2834	272
15°	2755	2732	2755	2755	2752	777
25°	2544	2526	2562	2554	2554	1171
35°	2237	2232	2272	2256	2256	1399
45°	1865	1860	1878	1854	1849	1435
55°	1426	1408	1408	1387	1387	1271
65°	924	904	906	898	898	914
75°	399	417	441	444	444	431
85°	58	89	106	108	106	79
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.7	2852.7	2852.7	2852.7	2852.7
2.5°	2869.6	2844.8	2852.7	2846.1	2835.8
5°	2863.2	2834.8	2844.8	2836.8	2834.2
7.5°	2842.6	2814.2	2827.3	2822.0	2819.4
10°	2823.6	2795.2	2810.4	2805.1	2802.5
12.5°	2798.3	2771.9	2789.3	2784.0	2783.5
15°	2754.9	2731.7	2754.9	2754.9	2752.3
17.5°	2700.5	2679.4	2704.2	2705.8	2704.2
20°	2662.5	2639.3	2670.4	2667.8	2670.4
22.5°	2616.0	2596.9	2630.3	2623.5	2626.0
25°	2543.6	2525.6	2562.1	2554.2	2554.2
27.5°	2458.1	2445.1	2485.0	2476.5	2476.5
30°	2401.0	2388.1	2430.1	2419.5	2419.5
32.5°	2337.6	2328.8	2368.8	2356.1	2356.1
35°	2237.2	2232.1	2271.6	2255.7	2255.7
37.5°	2133.7	2129.0	2164.9	2145.7	2139.5
40°	2057.6	2055.0	2086.7	2065.5	2065.5
42.5°	1981.6	1979.0	2006.4	1981.0	1981.0
45°	1864.8	1859.6	1878.0	1854.1	1849.0
47.5°	1737.5	1732.3	1743.8	1717.9	1715.3
50°	1650.9	1645.7	1650.9	1627.0	1624.4
52.5°	1562.1	1552.8	1553.7	1529.9	1529.4
55°	1426.3	1408.3	1407.8	1386.7	1386.7
57.5°	1282.6	1258.9	1261.0	1243.0	1240.4
60°	1183.3	1157.5	1159.6	1143.7	1141.1
62.5°	1086.1	1056.2	1062.4	1044.4	1043.9
65°	924.5	903.8	906.0	898.1	898.1
67.5°	769.2	750.1	763.9	757.5	757.0
70°	655.1	642.1	660.3	660.3	657.7
72.5°	549.4	548.9	571.6	571.6	573.2
75°	398.8	416.9	441.1	443.7	443.7
77.5°	266.2	298.3	324.9	325.9	325.4
80°	190.2	226.3	250.9	256.2	253.6
82.5°	128.9	167.1	187.5	192.8	190.2
85°	58.1	89.1	105.7	108.2	105.7
87.5°	17.7	37.9	47.0	47.3	43.2
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



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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)