

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: P563585

Luminaire Tested: **SQ4-PP3-100U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563585
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

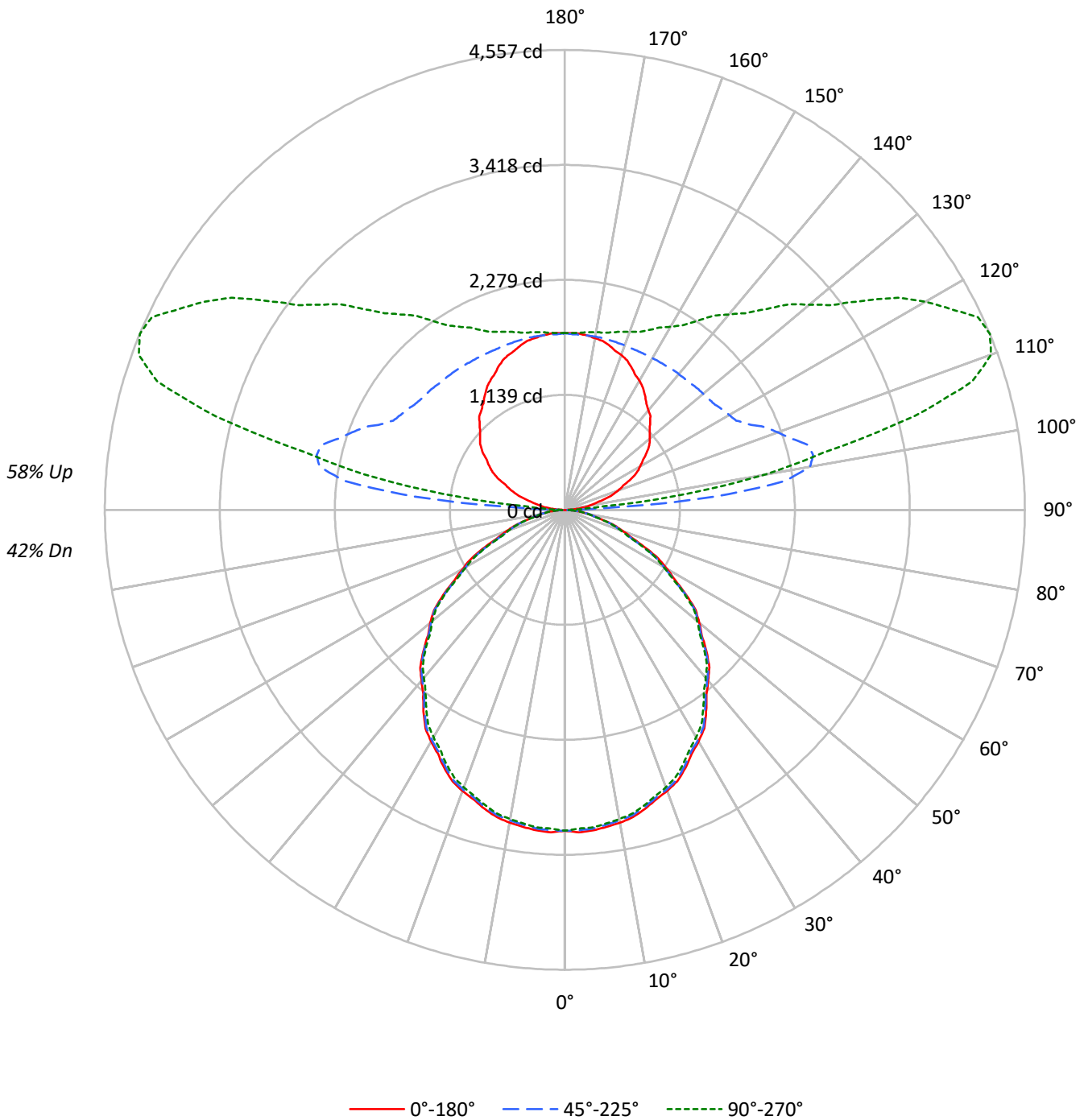
Lumens per Lamp: N/A
Luminaire Lumens: 19512.2 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 153.4
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	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	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	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9712	9659
20°	9701	9646	9574
25°	9586	9520	9425
30°	9408	9359	9240
35°	9162	9099	8985
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6325	6062	6041
70°	5461	5236	5236
75°	4701	4634	4569
80°	4144	4194	4095
85°	3243	3539	3539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.5
10°-20°	858.2	4.4
20°-30°	1285.5	6.6
30°-40°	1507.9	7.7
40°-50°	1512.6	7.8
50°-60°	1290.3	6.6
60°-70°	841.5	4.3
70°-80°	422.2	2.2
80°-90°	120.5	0.6
90°-100°	819.7	4.2
100°-110°	2262.9	11.6
110°-120°	2333.8	12.0
120°-130°	1875.4	9.6
130°-140°	1473.9	7.6
140°-150°	1130.4	5.8
150°-160°	812.4	4.2
160°-170°	496.8	2.5
170°-180°	167.5	0.9
0°-30°	2444.4	12.5
0°-40°	3952.2	20.3
0°-60°	6755.1	34.6
0°-90°	8139.3	41.7
90°-120°	5416.4	27.8
90°-150°	9896.1	50.7
90°-180°	11373.0	58.3
0°-180°	19512.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3190	3160	3170	3159	3159	303
15°	3067	3037	3050	3039	3034	865
25°	2825	2792	2805	2780	2778	1299
35°	2440	2416	2424	2396	2393	1524
45°	1984	1970	1970	1950	1950	1527
55°	1471	1466	1451	1443	1440	1307
65°	869	853	833	828	830	867
75°	396	396	390	387	384	429
85°	92	100	100	100	100	108
90°	6	11	22	25	28	12
95°	120	444	1487	611	398	129
105°	403	622	2490	3801	3579	429
115°	722	873	2005	3970	4514	710
125°	991	1128	1818	3076	3610	882
135°	1193	1322	1767	2491	2809	923
145°	1384	1479	1745	2121	2282	866
155°	1560	1612	1731	1903	1963	719
165°	1689	1711	1739	1807	1820	476
175°	1750	1753	1742	1767	1762	166
180°	1750	1750	1750	1750	1750	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3198.8	3172.6	3178.7	3173.9	3160.9
5°	3189.8	3159.9	3170.3	3159.2	3159.2
7.5°	3168.1	3135.4	3145.8	3134.7	3134.1
10°	3148.1	3115.4	3125.8	3114.6	3111.8
12.5°	3119.1	3086.4	3099.0	3085.6	3085.1
15°	3067.3	3037.3	3050.5	3039.3	3033.8
17.5°	3008.8	2976.1	2992.0	2976.4	2974.2
20°	2964.2	2931.5	2947.5	2925.2	2925.2
22.5°	2910.7	2878.0	2896.2	2867.2	2867.2
25°	2824.9	2792.2	2805.4	2780.3	2777.5
27.5°	2722.9	2690.8	2704.5	2676.1	2675.6
30°	2649.4	2619.4	2635.4	2604.7	2602.0
32.5°	2569.1	2541.4	2553.0	2522.3	2519.6
35°	2440.4	2415.9	2423.7	2395.8	2393.1
37.5°	2305.0	2280.0	2288.9	2264.9	2263.8
40°	2209.2	2192.9	2195.3	2175.7	2170.2
42.5°	2120.1	2101.5	2103.9	2084.4	2083.3
45°	1983.6	1969.9	1969.6	1950.1	1950.1
47.5°	1838.7	1828.3	1825.3	1809.1	1808.6
50°	1738.4	1730.2	1727.2	1713.3	1710.5
52.5°	1633.6	1629.8	1620.3	1608.6	1608.0
55°	1470.9	1465.5	1451.4	1443.0	1440.3
57.5°	1294.3	1283.4	1267.6	1255.4	1257.5
60°	1167.3	1156.4	1133.9	1128.3	1128.3
62.5°	1044.7	1031.6	1009.0	1001.3	1005.7
65°	869.2	852.9	833.0	827.5	830.2
67.5°	709.8	695.1	673.6	673.6	671.4
70°	607.3	599.2	582.3	582.3	582.3
72.5°	515.9	512.1	499.8	499.7	497.6
75°	395.6	395.6	390.0	387.2	384.5
77.5°	296.4	297.5	294.7	291.8	286.9
80°	234.0	239.5	236.8	234.0	231.2
82.5°	176.1	181.5	181.1	176.1	175.5
85°	91.9	100.1	100.3	100.3	100.3
87.5°	25.6	35.4	40.1	40.8	43.5
90°	5.6	11.1	22.4	25.3	28.0
92.5°	50.4	209.2	374.2	136.5	106.4
95°	120.4	443.5	1487.1	611.3	397.7
97.5°	199.4	496.8	2202.9	1696.0	1228.3
100°	257.7	528.7	2467.3	2484.7	2019.2
102.5°	313.7	565.0	2518.8	3070.0	2628.6
105°	403.3	622.3	2489.7	3800.9	3579.1
107.5°	498.5	693.5	2350.8	4153.4	4234.5
110°	565.7	741.0	2243.3	4229.2	4492.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	626.2	794.9	2142.4	4169.3	4557.1
115°	722.5	873.2	2005.2	3969.6	4514.5
117.5°	806.6	956.6	1915.0	3688.4	4308.4
120°	862.6	1010.4	1879.2	3498.1	4122.4
122.5°	916.3	1057.6	1850.1	3320.4	3911.8
125°	991.4	1128.3	1817.6	3076.0	3609.9
127.5°	1055.3	1192.2	1798.5	2869.3	3329.9
130°	1097.8	1234.7	1789.6	2742.9	3161.8
132.5°	1138.2	1268.5	1780.6	2636.7	3016.2
135°	1193.0	1321.7	1767.2	2491.3	2809.0
137.5°	1254.7	1371.9	1760.4	2369.3	2640.4
140°	1288.3	1403.3	1756.0	2287.9	2526.1
142.5°	1326.4	1432.6	1751.5	2215.5	2425.3
145°	1383.5	1479.3	1744.8	2120.9	2282.5
147.5°	1438.4	1522.2	1738.6	2041.1	2166.5
150°	1478.7	1547.2	1736.4	1993.5	2094.8
152.5°	1510.1	1574.1	1734.1	1952.8	2036.6
155°	1559.9	1611.9	1730.8	1903.0	1963.2
157.5°	1605.8	1645.8	1731.3	1866.7	1907.8
160°	1632.7	1668.3	1733.6	1846.3	1876.4
162.5°	1655.1	1686.4	1735.8	1828.2	1851.7
165°	1688.7	1710.7	1739.2	1806.7	1820.4
167.5°	1714.5	1727.7	1742.0	1793.6	1798.0
170°	1728.0	1738.9	1742.0	1786.8	1786.8
172.5°	1739.2	1745.7	1742.0	1777.8	1775.6
175°	1750.4	1753.1	1742.0	1767.0	1761.6
177.5°	1754.8	1752.6	1741.4	1757.0	1752.6
180°	1750.4	1750.4	1750.4	1750.4	1750.4

(END OF REPORT)