

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: P564277

Luminaire Tested: **SQ4-PR1-100U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564277
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17826.5 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

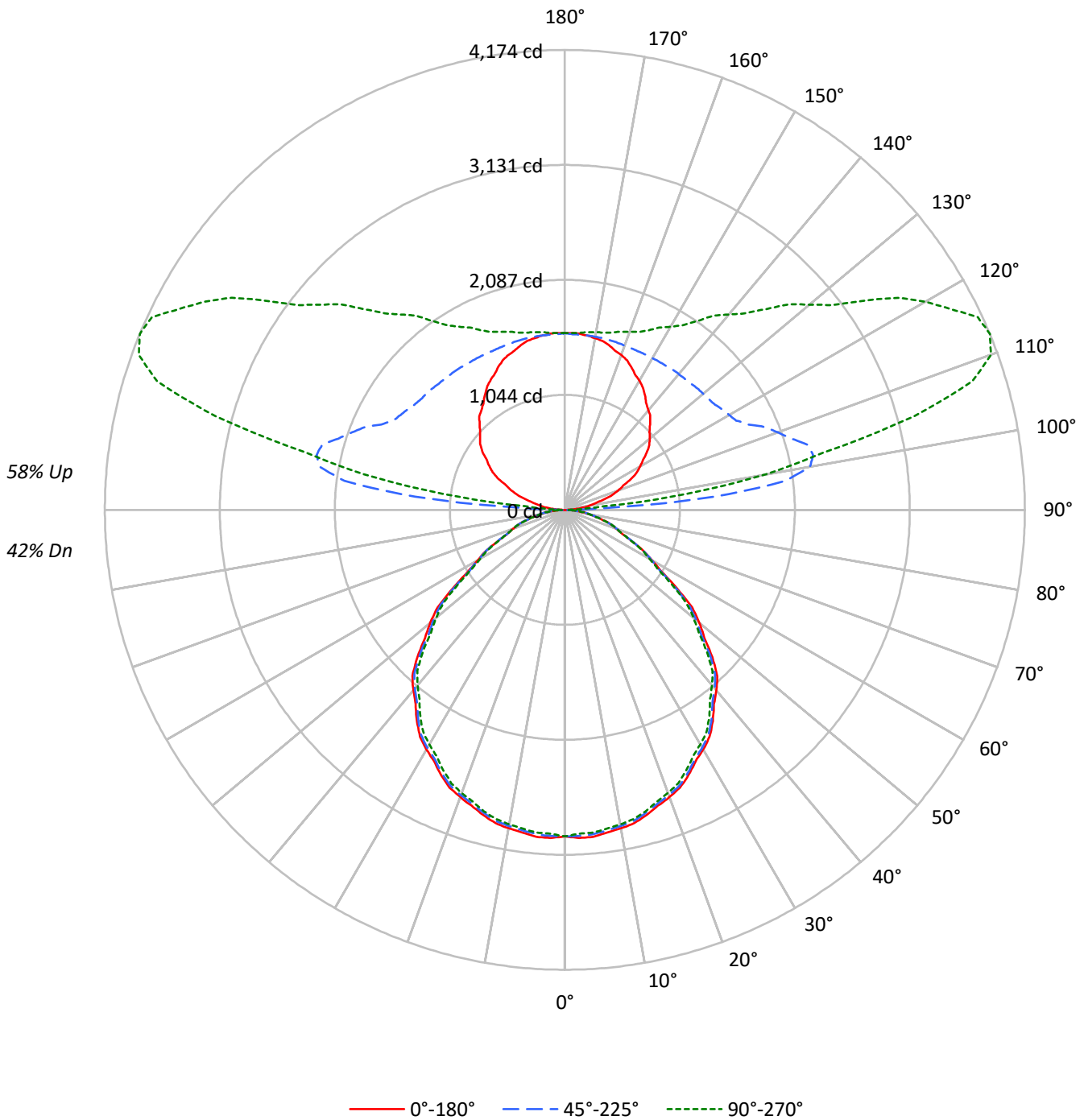
Input Watts (W): 153.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9019
20°	9079	9021	8954
25°	9015	8955	8850
30°	8918	8854	8728
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7619	7436	7290
55°	6650	6500	6363
60°	5604	5557	5447
65°	4847	4866	4828
70°	4452	4475	4475
75°	4275	4275	4306
80°	4022	4068	4022
85°	3243	3603	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.6
10°-20°	801.7	4.5
20°-30°	1209.2	6.8
30°-40°	1440.7	8.1
40°-50°	1420.4	8.0
50°-60°	1085.6	6.1
60°-70°	671.8	3.8
70°-80°	381.5	2.1
80°-90°	119.4	0.7
90°-100°	750.7	4.2
100°-110°	2072.5	11.6
110°-120°	2137.5	12.0
120°-130°	1717.6	9.6
130°-140°	1349.9	7.6
140°-150°	1035.3	5.8
150°-160°	744.1	4.2
160°-170°	455.0	2.6
170°-180°	153.4	0.9
0°-30°	2291.0	12.9
0°-40°	3731.7	20.9
0°-60°	6237.7	35.0
0°-90°	7410.5	41.6
90°-120°	4960.7	27.8
90°-150°	9063.6	50.8
90°-180°	10416.0	58.4
0°-180°	17826.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2978	2946	2955	2945	2940	283
15°	2866	2836	2848	2838	2833	809
25°	2657	2624	2639	2611	2608	1223
35°	2340	2313	2320	2289	2287	1461
45°	1894	1869	1860	1827	1822	1451
55°	1240	1220	1212	1192	1187	1111
65°	666	661	669	664	664	675
75°	360	360	360	362	362	380
85°	92	97	102	102	102	107
90°	5	10	20	23	26	12
95°	110	406	1362	560	364	118
105°	369	570	2280	3481	3278	393
115°	662	800	1836	3636	4135	650
125°	908	1033	1665	2817	3306	808
135°	1093	1210	1618	2282	2573	845
145°	1267	1355	1598	1942	2090	793
155°	1429	1476	1585	1743	1798	658
165°	1547	1567	1593	1655	1667	436
175°	1603	1606	1595	1618	1613	152
180°	1603	1603	1603	1603	1603	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2963.0	2963.0	2963.0	2963.0	2963.0
2.5°	2981.4	2955.4	2963.0	2956.5	2942.6
5°	2978.3	2945.9	2955.3	2945.0	2940.0
7.5°	2955.3	2923.4	2932.9	2922.6	2919.6
10°	2934.9	2905.0	2914.5	2904.2	2899.2
12.5°	2912.5	2880.5	2892.0	2879.7	2874.7
15°	2866.0	2836.1	2848.1	2837.8	2832.8
17.5°	2815.0	2783.0	2795.1	2783.2	2776.7
20°	2774.1	2744.2	2756.3	2738.3	2735.9
22.5°	2729.2	2699.3	2711.4	2687.4	2686.9
25°	2656.7	2624.3	2638.9	2610.7	2608.2
27.5°	2570.5	2540.5	2552.6	2524.0	2521.0
30°	2511.3	2481.3	2493.4	2462.7	2457.7
32.5°	2443.9	2415.9	2426.0	2395.3	2392.3
35°	2340.3	2312.8	2319.9	2289.2	2286.7
37.5°	2222.4	2197.4	2201.4	2167.7	2165.2
40°	2138.7	2113.7	2115.7	2079.9	2077.4
42.5°	2046.8	2021.8	2019.7	1983.9	1981.5
45°	1893.7	1868.7	1860.5	1827.2	1822.2
47.5°	1719.1	1694.1	1678.8	1651.6	1648.1
50°	1592.5	1567.6	1554.2	1531.1	1523.6
52.5°	1455.7	1430.8	1419.5	1398.4	1390.9
55°	1240.3	1220.4	1212.2	1191.7	1186.7
57.5°	1035.6	1022.2	1019.8	999.9	997.9
60°	911.1	903.6	903.4	885.6	885.6
62.5°	804.9	799.4	803.4	791.6	789.6
65°	666.1	661.1	668.7	663.5	663.5
67.5°	556.4	556.4	561.0	558.9	558.9
70°	495.1	495.1	497.7	497.7	497.7
72.5°	440.0	438.0	444.6	444.5	442.5
75°	359.8	359.8	359.8	362.4	362.4
77.5°	280.2	280.7	282.8	282.2	280.2
80°	227.1	229.6	229.7	227.1	227.1
82.5°	174.1	176.5	176.6	176.0	174.1
85°	91.9	96.9	102.1	102.1	102.1
87.5°	27.6	36.6	44.9	45.4	43.9
90°	5.1	10.1	20.5	23.1	25.6
92.5°	46.2	191.6	342.7	125.1	97.5
95°	110.3	406.2	1362.0	559.8	364.2
97.5°	182.6	455.0	2017.6	1553.3	1125.0
100°	236.0	484.3	2259.7	2275.7	1849.3
102.5°	287.3	517.5	2306.9	2811.8	2407.5
105°	369.4	570.0	2280.2	3481.2	3278.0
107.5°	456.6	635.1	2153.0	3804.0	3878.2
110°	518.1	678.6	2054.5	3873.4	4114.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.5	728.0	1962.2	3818.6	4173.7
115°	661.8	799.7	1836.5	3635.6	4134.7
117.5°	738.7	876.1	1753.9	3378.1	3945.9
120°	790.0	925.4	1721.1	3203.8	3775.6
122.5°	839.3	968.7	1694.4	3041.0	3582.7
125°	908.0	1033.4	1664.7	2817.2	3306.2
127.5°	966.5	1091.9	1647.2	2627.9	3049.7
130°	1005.5	1130.9	1639.0	2512.1	2895.8
132.5°	1042.4	1161.8	1630.8	2414.9	2762.5
135°	1092.7	1210.5	1618.5	2281.7	2572.7
137.5°	1149.1	1256.4	1612.3	2170.0	2418.2
140°	1179.9	1285.2	1608.2	2095.4	2313.6
142.5°	1214.8	1312.1	1604.1	2029.1	2221.3
145°	1267.1	1354.9	1598.0	1942.5	2090.4
147.5°	1317.4	1394.1	1592.3	1869.4	1984.2
150°	1354.3	1417.0	1590.3	1825.8	1918.6
152.5°	1383.0	1441.7	1588.2	1788.5	1865.2
155°	1428.7	1476.3	1585.1	1742.9	1798.0
157.5°	1470.7	1507.4	1585.7	1709.6	1747.2
160°	1495.4	1528.0	1587.7	1690.9	1718.5
162.5°	1515.9	1544.5	1589.8	1674.4	1695.9
165°	1546.7	1566.7	1592.8	1654.7	1667.2
167.5°	1570.3	1582.3	1595.4	1642.7	1646.7
170°	1582.6	1592.6	1595.4	1636.4	1636.4
172.5°	1592.8	1598.9	1595.4	1628.2	1626.2
175°	1603.1	1605.6	1595.4	1618.4	1613.4
177.5°	1607.2	1605.2	1594.9	1609.2	1605.1
180°	1603.1	1603.1	1603.1	1603.1	1603.1

(END OF REPORT)