

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: P563985

Luminaire Tested: **SQ4-PR1-050U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563985
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12640.3 lumens
Efficiency: N/A
Efficacy: 119.7 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

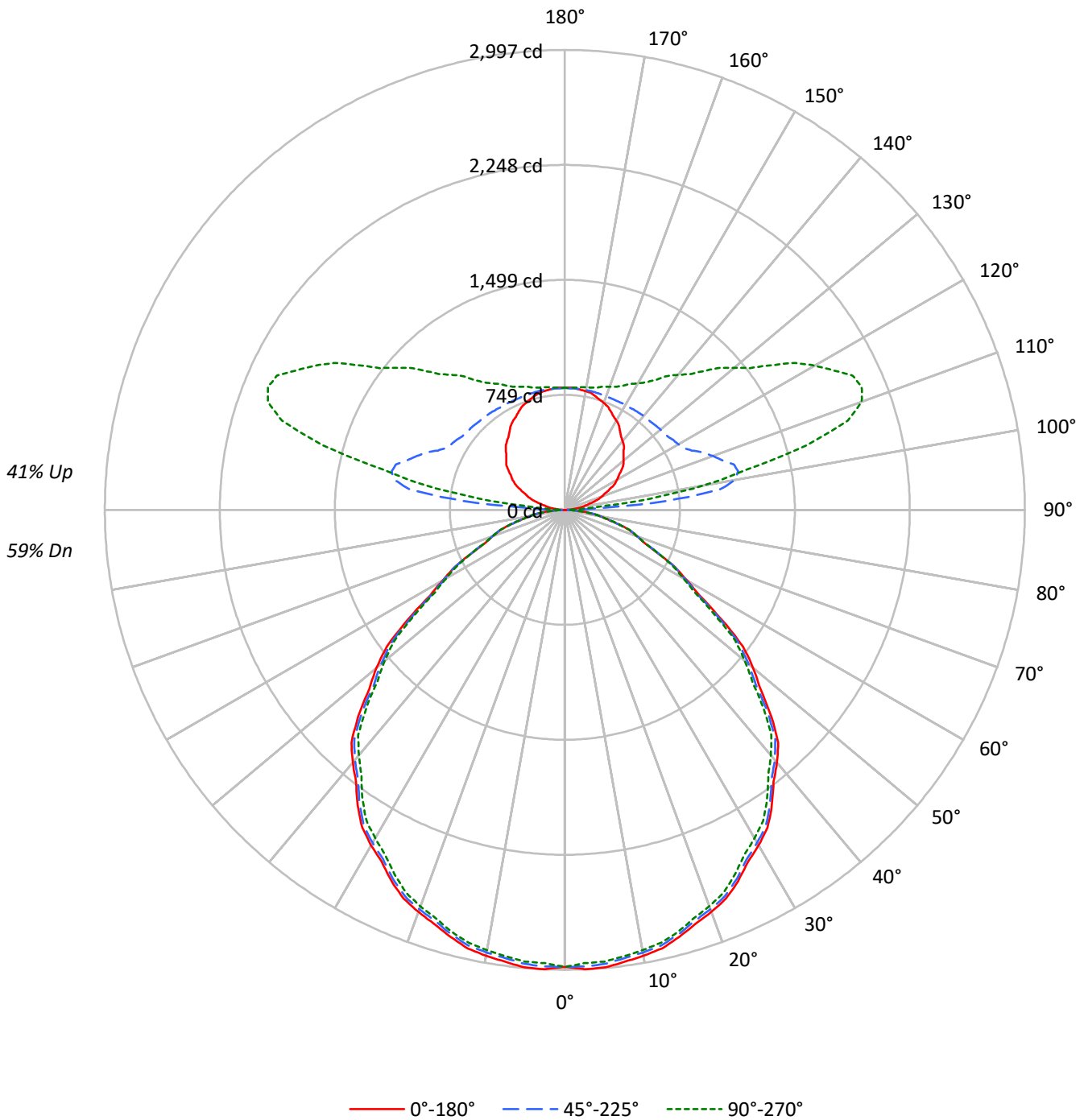
Input Watts (W): 105.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6533	6396
60°	5633	5586	5475
65°	4872	4891	4853
70°	4474	4498	4498
75°	4298	4298	4328
80°	4043	4089	4043
85°	3257	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	2.2
10°-20°	805.8	6.4
20°-30°	1215.3	9.6
30°-40°	1448.1	11.5
40°-50°	1427.7	11.3
50°-60°	1091.1	8.6
60°-70°	675.2	5.3
70°-80°	383.5	3.0
80°-90°	119.7	0.9
90°-100°	381.7	3.0
100°-110°	1037.0	8.2
110°-120°	1066.3	8.4
120°-130°	852.5	6.7
130°-140°	669.8	5.3
140°-150°	513.6	4.1
150°-160°	369.4	2.9
160°-170°	225.9	1.8
170°-180°	76.1	0.6
0°-30°	2302.7	18.2
0°-40°	3750.8	29.7
0°-60°	6269.6	49.6
0°-90°	7448.0	58.9
90°-120°	2485.0	19.7
90°-150°	4521.0	35.8
90°-180°	5192.0	41.1
0°-180°	12640.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2994	2961	2970	2960	2955	284
15°	2881	2850	2863	2852	2847	813
25°	2670	2638	2652	2624	2622	1229
35°	2352	2325	2332	2301	2298	1468
45°	1903	1878	1870	1836	1832	1458
55°	1247	1227	1218	1198	1193	1117
65°	670	664	672	667	667	678
75°	362	362	362	364	364	382
85°	92	97	103	103	103	107
90°	3	10	18	23	23	8
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2978.1	2978.1	2978.1	2978.1	2978.1
2.5°	2996.6	2970.5	2978.1	2971.6	2957.6
5°	2993.5	2960.9	2970.4	2960.0	2955.0
7.5°	2970.4	2938.3	2947.8	2937.5	2934.5
10°	2949.9	2919.8	2929.4	2919.0	2914.0
12.5°	2927.3	2895.2	2906.8	2894.4	2889.4
15°	2880.6	2850.5	2862.7	2852.3	2847.3
17.5°	2829.3	2797.2	2809.3	2797.4	2790.9
20°	2788.3	2758.2	2770.3	2752.3	2749.8
22.5°	2743.1	2713.1	2725.2	2701.1	2700.6
25°	2670.3	2637.7	2652.3	2624.1	2621.6
27.5°	2583.6	2553.5	2565.6	2536.8	2533.8
30°	2524.1	2494.0	2506.1	2475.2	2470.2
32.5°	2456.4	2428.3	2438.4	2407.6	2404.6
35°	2352.2	2324.6	2331.7	2300.9	2298.4
37.5°	2233.7	2208.6	2212.7	2178.8	2176.3
40°	2149.6	2124.5	2126.5	2090.5	2088.0
42.5°	2057.2	2032.2	2030.0	1994.1	1991.6
45°	1903.3	1878.2	1870.0	1836.5	1831.5
47.5°	1727.9	1702.8	1687.3	1660.1	1656.6
50°	1600.6	1575.6	1562.2	1538.9	1531.4
52.5°	1463.1	1438.1	1426.7	1405.5	1398.0
55°	1246.7	1226.6	1218.4	1197.8	1192.8
57.5°	1040.9	1027.4	1025.0	1005.0	1003.0
60°	915.8	908.2	908.1	890.1	890.1
62.5°	809.0	803.5	807.5	795.7	793.7
65°	669.5	664.5	672.1	666.9	666.9
67.5°	559.2	559.2	563.8	561.8	561.8
70°	497.6	497.6	500.2	500.2	500.2
72.5°	442.2	440.2	446.8	446.8	444.8
75°	361.7	361.7	361.7	364.2	364.2
77.5°	281.7	282.2	284.2	283.7	281.7
80°	228.3	230.8	230.9	228.3	228.3
82.5°	174.9	177.4	177.5	176.9	174.9
85°	92.3	97.4	102.6	102.6	102.6
87.5°	27.2	36.7	44.6	45.6	43.6
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)