

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: P564657

Luminaire Tested: **SQ4-PW1-050U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564657
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 12602.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

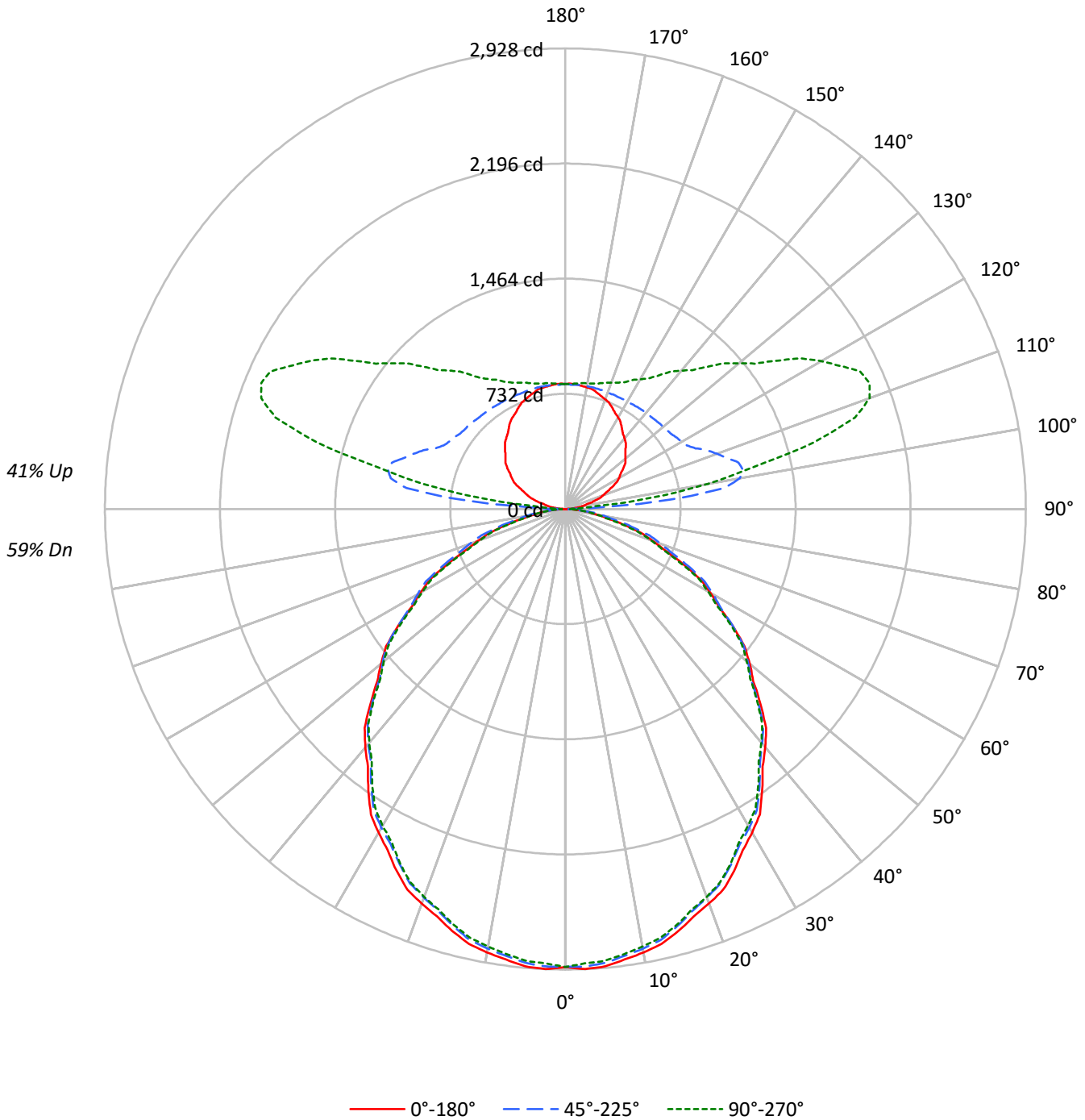
Input Watts (W): 105.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7940	7816	7785
45°	7631	7531	7497
50°	7315	7253	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5143
75°	4511	5182	4389
80°	3498	4362	3544
85°	2262	3349	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	2.2
10°-20°	774.0	6.1
20°-30°	1148.1	9.1
30°-40°	1343.4	10.7
40°-50°	1337.4	10.6
50°-60°	1154.9	9.2
60°-70°	831.3	6.6
70°-80°	435.9	3.5
80°-90°	111.1	0.9
90°-100°	381.7	3.0
100°-110°	1037.0	8.2
110°-120°	1066.3	8.5
120°-130°	852.5	6.8
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°	2196.3	17.4
0°-40°	3539.7	28.1
0°-60°	6032.1	47.9
0°-90°	7410.5	58.8
90°-120°	2485.0	19.7
90°-150°	4521.0	35.9
90°-180°	5192.0	41.2
0°-180°	12602.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2919	2886	2896	2888	2883	276
15°	2778	2743	2747	2742	2737	783
25°	2540	2497	2493	2478	2486	1168
35°	2183	2153	2152	2132	2139	1365
45°	1755	1740	1732	1726	1724	1354
55°	1300	1298	1300	1282	1280	1160
65°	823	848	864	830	803	816
75°	380	415	436	407	369	407
85°	64	84	95	90	85	85
90°	3	10	18	23	23	6
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°	2911.4	2911.4	2911.4	2911.4	2911.4
2.5°	2927.8	2903.8	2911.4	2905.0	2890.9
5°	2919.1	2886.5	2896.0	2888.2	2883.2
7.5°	2889.4	2859.3	2866.3	2858.0	2855.0
10°	2862.7	2832.6	2839.6	2829.2	2824.2
12.5°	2831.9	2799.8	2806.8	2796.4	2793.4
15°	2778.0	2742.9	2747.3	2742.0	2737.0
17.5°	2715.5	2679.8	2680.6	2672.3	2671.3
20°	2670.3	2632.7	2629.3	2619.1	2624.1
22.5°	2621.1	2581.4	2578.0	2563.8	2570.8
25°	2539.5	2496.8	2493.3	2478.1	2485.6
27.5°	2445.1	2403.0	2403.0	2381.7	2389.7
30°	2375.3	2335.2	2339.4	2314.0	2324.0
32.5°	2301.4	2265.3	2267.6	2242.2	2252.2
35°	2182.9	2152.8	2152.1	2131.8	2139.3
37.5°	2061.9	2035.3	2031.1	2019.3	2021.3
40°	1977.7	1955.1	1946.9	1939.2	1939.2
42.5°	1889.5	1868.9	1860.7	1855.1	1853.1
45°	1754.6	1739.5	1731.5	1726.3	1723.8
47.5°	1621.2	1607.1	1600.1	1596.5	1594.0
50°	1528.8	1518.8	1516.0	1508.2	1505.7
52.5°	1436.5	1430.5	1427.8	1417.9	1415.4
55°	1300.5	1298.0	1300.5	1282.5	1280.0
57.5°	1158.9	1162.9	1171.2	1147.0	1141.0
60°	1064.5	1074.6	1085.1	1056.6	1046.6
62.5°	968.1	984.1	998.9	966.2	952.2
65°	823.4	848.5	864.5	830.5	802.9
67.5°	683.9	715.0	734.1	697.5	666.4
70°	587.4	622.5	643.8	607.1	572.0
72.5°	503.3	542.4	559.7	525.1	489.9
75°	379.6	414.8	436.1	407.0	369.4
77.5°	269.3	302.4	320.1	294.8	263.7
80°	197.5	232.6	246.3	225.2	200.1
82.5°	140.1	169.2	178.5	165.8	148.8
85°	64.1	84.2	94.9	89.7	84.6
87.5°	16.9	32.5	42.6	43.6	45.6
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)