

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: P519631

Luminaire Tested: **SQ4-WB-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519631
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

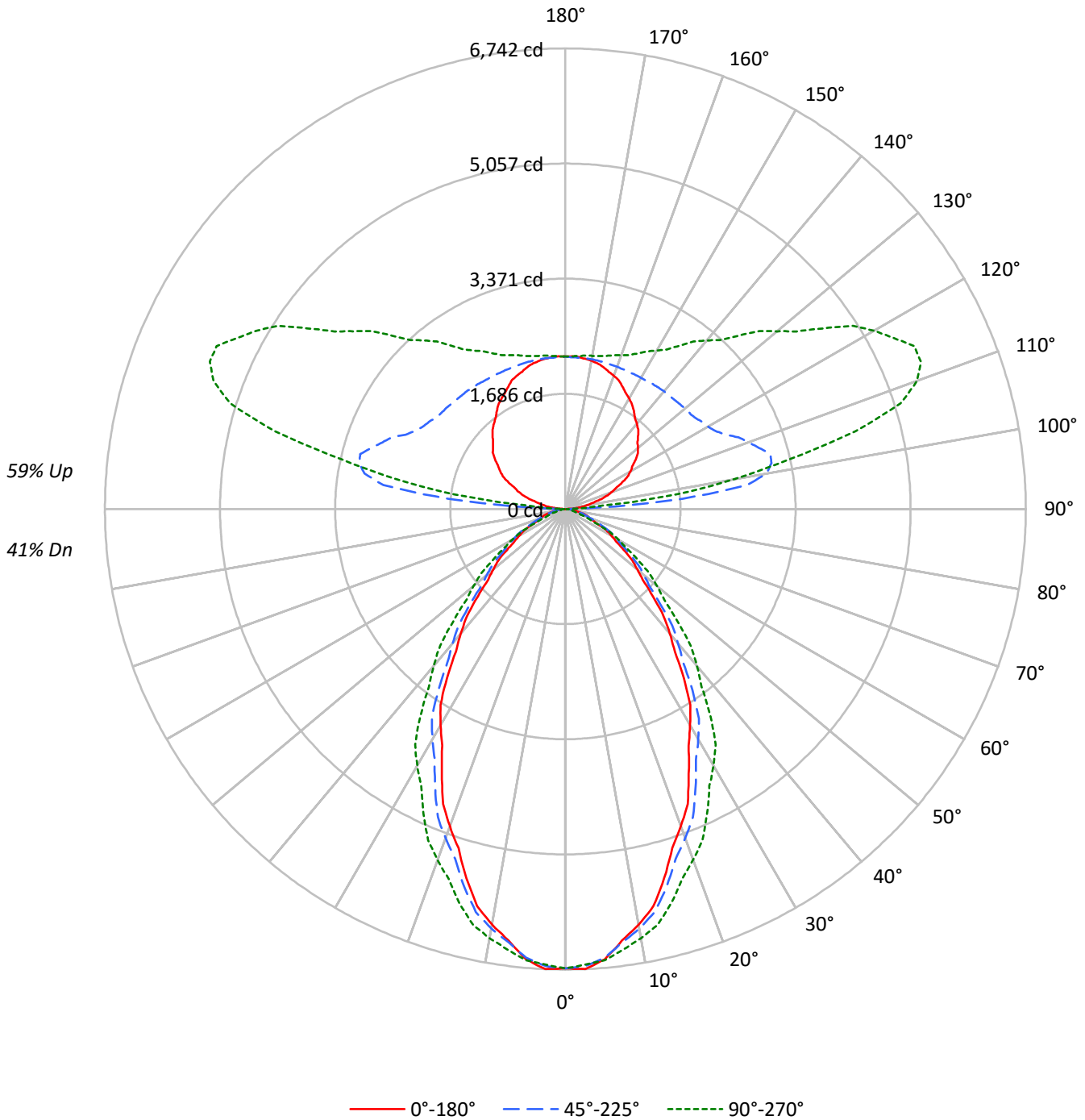
Lumens per Lamp: N/A
Luminaire Lumens: 24185.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 256.3
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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41				
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36				
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32				
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28				
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25				
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22				
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20				
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18				
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17				
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15				
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18227	19044
20°	16176	16785	17896
25°	14509	15300	16672
30°	12973	13822	15404
35°	11345	12165	13904
40°	9548	10307	12036
45°	7880	8560	10049
50°	6579	7172	8372
55°	5585	6155	6914
60°	4774	5336	5518
65°	3801	4488	3564
70°	3370	3502	2176
75°	3120	2840	1332
80°	2874	2612	1149
85°	2604	2396	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.8	2.6
10°-20°	1604.4	6.6
20°-30°	2078.2	8.6
30°-40°	2035.1	8.4
40°-50°	1557.7	6.4
50°-60°	1038.0	4.3
60°-70°	566.4	2.3
70°-80°	236.0	1.0
80°-90°	71.5	0.3
90°-100°	1036.6	4.3
100°-110°	2802.7	11.6
110°-120°	2946.7	12.2
120°-130°	2393.5	9.9
130°-140°	1877.5	7.8
140°-150°	1441.0	6.0
150°-160°	1036.3	4.3
160°-170°	633.1	2.6
170°-180°	213.4	0.9
0°-30°	4299.5	17.8
0°-40°	6334.6	26.2
0°-60°	8930.3	36.9
0°-90°	9804.3	40.5
90°-120°	6786.0	28.1
90°-150°	12497.9	51.7
90°-180°	14381.0	59.5
0°-180°	24185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6725	6725	6725	6725	6725	
5°	6616	6550	6592	6608	6631	615
15°	5595	5575	5725	5880	5981	1562
25°	4276	4287	4509	4706	4913	1966
35°	3022	3036	3240	3458	3703	1879
45°	1812	1846	1968	2117	2310	1413
55°	1042	1085	1148	1191	1290	944
65°	522	566	617	539	490	543
75°	263	263	239	164	112	280
85°	74	74	68	44	27	80
90°	5	14	31	34	31	14
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

TEST NUMBER: P519631

CATALOG NUMBER: SQ4-WB-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6725.0	6725.0	6725.0	6725.0	6725.0
2.5°	6741.6	6681.5	6696.7	6696.3	6677.8
5°	6615.9	6549.5	6592.2	6607.5	6630.6
7.5°	6370.3	6320.1	6398.1	6455.8	6502.5
10°	6179.1	6135.8	6235.2	6319.2	6379.8
12.5°	5957.2	5920.9	6044.0	6156.7	6235.8
15°	5594.9	5574.7	5724.7	5880.4	5981.4
17.5°	5207.1	5197.3	5369.4	5551.2	5680.4
20°	4942.7	4939.8	5128.6	5317.9	5468.0
22.5°	4676.0	4682.3	4880.7	5077.6	5248.4
25°	4275.8	4287.4	4508.9	4705.5	4913.2
27.5°	3905.8	3911.0	4140.1	4347.5	4569.1
30°	3653.2	3667.6	3892.2	4107.0	4337.8
32.5°	3400.6	3417.3	3637.2	3859.2	4094.6
35°	3021.7	3036.1	3240.1	3458.1	3703.3
37.5°	2631.0	2650.6	2831.7	3037.8	3279.0
40°	2378.4	2407.3	2567.3	2761.5	2998.1
42.5°	2135.3	2171.0	2319.4	2503.7	2717.2
45°	1811.8	1846.5	1968.2	2117.2	2310.5
47.5°	1533.3	1573.1	1666.7	1794.9	1960.0
50°	1375.1	1412.6	1499.0	1594.1	1749.9
52.5°	1235.8	1273.3	1350.3	1423.6	1556.3
55°	1041.7	1084.9	1147.9	1191.4	1289.5
57.5°	882.3	923.9	973.8	993.4	1052.9
60°	776.1	822.2	867.6	865.3	897.1
62.5°	679.3	718.5	763.7	732.4	734.2
65°	522.3	565.6	616.7	538.9	489.8
67.5°	422.0	431.2	483.9	375.8	317.5
70°	374.8	374.8	389.5	291.0	242.0
72.5°	329.9	329.9	316.3	236.7	185.3
75°	262.6	262.6	239.0	164.1	112.1
77.5°	202.4	200.1	183.0	122.4	81.4
80°	162.3	162.3	147.5	96.7	64.9
82.5°	126.9	126.9	114.5	75.5	48.4
85°	73.8	73.8	67.9	43.9	26.6
87.5°	26.9	28.8	29.8	20.8	18.0
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4

TEST NUMBER: P519631

CATALOG NUMBER: SQ4-WB-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)