

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: P519537

Luminaire Tested: **SQ4-WB-125U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519537
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

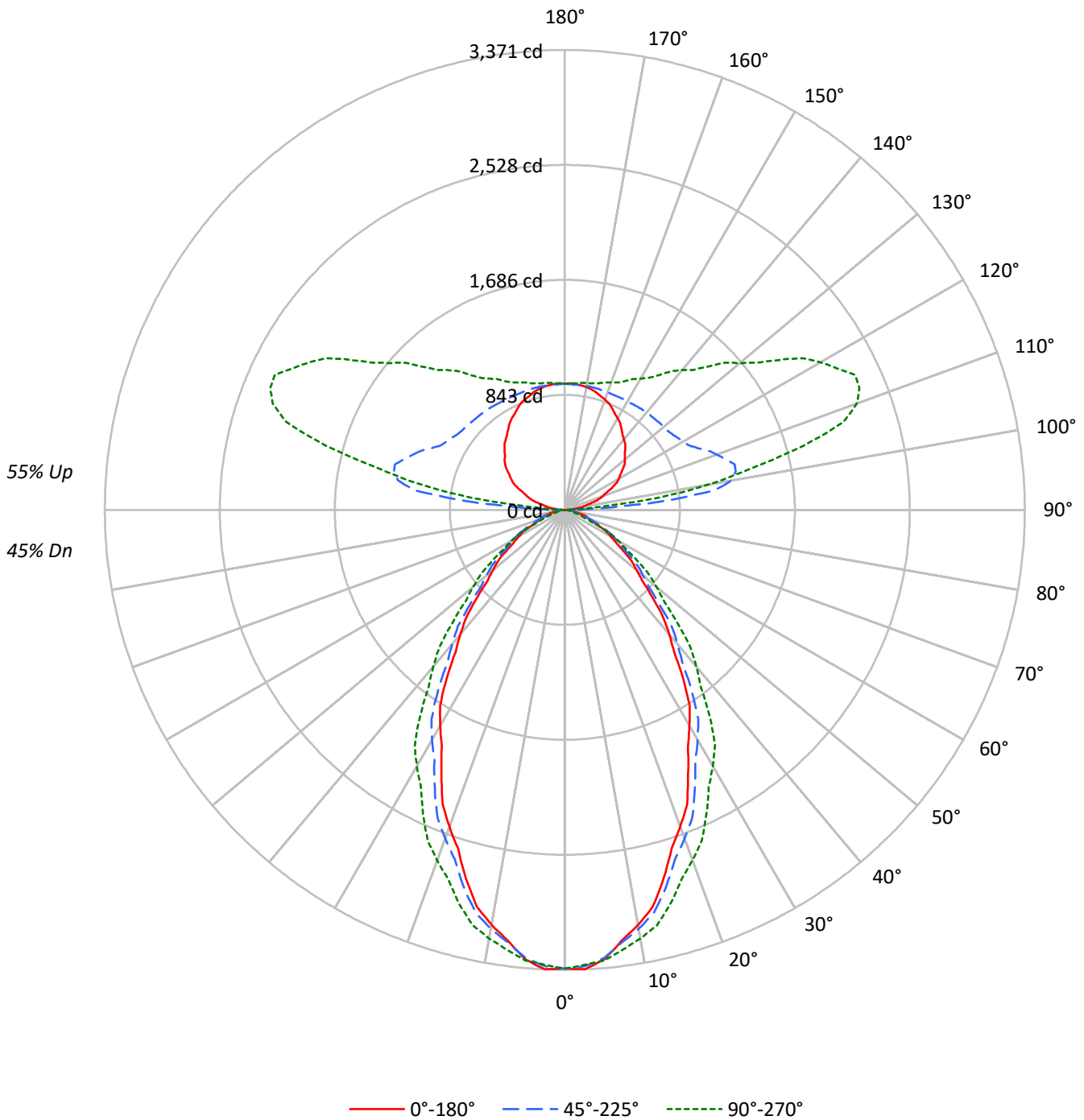
Lumens per Lamp: N/A
Luminaire Lumens: 10869.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45				
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40				
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35				
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31				
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28				
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25				
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23				
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20				
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19				
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17				
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19297	19472	19923
15°	17813	18226	19044
20°	16177	16785	17896
25°	14509	15301	16672
30°	12973	13822	15404
35°	11344	12164	13904
40°	9548	10306	12036
45°	7880	8560	10049
50°	6580	7172	8372
55°	5585	6154	6915
60°	4773	5336	5517
65°	3802	4488	3564
70°	3370	3503	2176
75°	3120	2840	1333
80°	2873	2614	1151
85°	2604	2392	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	2.8
10°-20°	802.2	7.4
20°-30°	1039.1	9.6
30°-40°	1017.5	9.4
40°-50°	778.9	7.2
50°-60°	519.0	4.8
60°-70°	283.2	2.6
70°-80°	118.0	1.1
80°-90°	35.6	0.3
90°-100°	432.4	4.0
100°-110°	1164.8	10.7
110°-120°	1222.5	11.2
120°-130°	992.0	9.1
130°-140°	778.0	7.2
140°-150°	597.3	5.5
150°-160°	429.5	4.0
160°-170°	262.4	2.4
170°-180°	88.5	0.8
0°-30°	2149.7	19.8
0°-40°	3167.3	29.1
0°-60°	4465.1	41.1
0°-90°	4902.0	45.1
90°-120°	2819.7	25.9
90°-150°	5187.0	47.7
90°-180°	5967.0	54.9
0°-180°	10869.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	3308	3275	3296	3304	3315	308
15°	2797	2787	2862	2940	2991	781
25°	2138	2144	2254	2353	2457	983
35°	1511	1518	1620	1729	1852	939
45°	906	923	984	1059	1155	706
55°	521	542	574	596	645	472
65°	261	283	308	269	245	271
75°	131	131	120	82	56	140
85°	37	37	34	22	13	40
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	

TEST NUMBER: P519537

CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3370.8	3340.8	3348.4	3348.1	3338.9
5°	3307.9	3274.7	3296.1	3303.8	3315.3
7.5°	3185.2	3160.1	3199.0	3227.9	3251.3
10°	3089.6	3067.9	3117.6	3159.6	3189.9
12.5°	2978.6	2960.4	3022.0	3078.4	3117.9
15°	2797.4	2787.3	2862.3	2940.2	2990.7
17.5°	2603.6	2598.6	2684.7	2775.6	2840.2
20°	2471.4	2469.9	2564.3	2659.0	2734.0
22.5°	2338.0	2341.1	2440.4	2538.8	2624.2
25°	2137.9	2143.7	2254.5	2352.7	2456.6
27.5°	1952.9	1955.5	2070.0	2173.8	2284.6
30°	1826.6	1833.8	1946.1	2053.5	2168.9
32.5°	1700.3	1708.7	1818.6	1929.6	2047.3
35°	1510.8	1518.1	1620.0	1729.0	1851.7
37.5°	1315.5	1325.3	1415.8	1518.9	1639.5
40°	1189.2	1203.6	1283.6	1380.7	1499.0
42.5°	1067.6	1085.5	1159.7	1251.8	1358.6
45°	905.9	923.2	984.1	1058.6	1155.3
47.5°	766.6	786.5	833.3	897.5	980.0
50°	687.6	706.3	749.5	797.0	874.9
52.5°	617.9	636.7	675.2	711.8	778.1
55°	520.8	542.5	573.9	595.7	644.8
57.5°	441.2	461.9	486.9	496.7	526.4
60°	388.0	411.1	433.8	432.7	448.5
62.5°	339.6	359.3	381.8	366.2	367.1
65°	261.2	282.8	308.4	269.4	244.9
67.5°	211.0	215.6	242.0	187.9	158.8
70°	187.4	187.4	194.8	145.5	121.0
72.5°	165.0	165.0	158.2	118.3	92.7
75°	131.3	131.3	119.5	82.0	56.1
77.5°	101.2	100.1	91.5	61.2	40.7
80°	81.1	81.1	73.8	48.3	32.5
82.5°	63.4	63.4	57.2	37.8	24.2
85°	36.9	36.9	33.9	21.9	13.3
87.5°	13.5	14.4	14.6	10.1	9.0
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



TEST NUMBER: P519537

CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)