

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: P519441

Luminaire Tested: **SQ4-WB-100U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519441
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

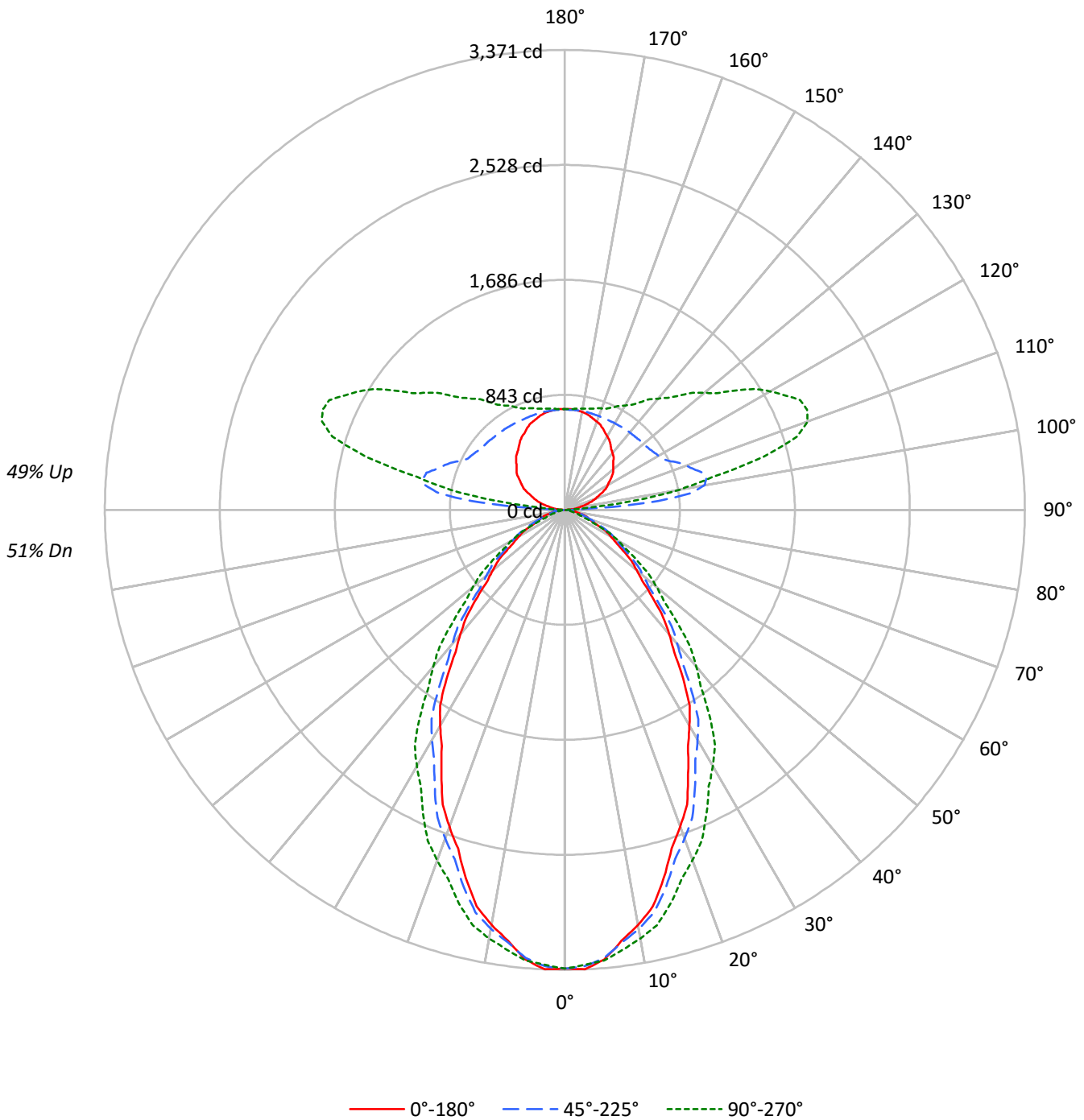
Lumens per Lamp: N/A
Luminaire Lumens: 9695.3 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45				
2	91	84	79	74	84	78	74	70	67	64	61	57	54	52	47	45	44	40				
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35				
4	77	68	60	55	72	63	57	52	54	50	46	47	43	40	39	37	35	31				
5	72	61	53	48	66	57	50	45	49	44	40	42	39	36	36	33	31	28				
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25				
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23				
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21				
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	21	19				
10	50	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18				

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	3.2
10°-20°	802.2	8.3
20°-30°	1039.1	10.7
30°-40°	1017.5	10.5
40°-50°	778.9	8.0
50°-60°	519.0	5.4
60°-70°	283.2	2.9
70°-80°	118.0	1.2
80°-90°	34.9	0.4
90°-100°	345.5	3.6
100°-110°	953.9	9.8
110°-120°	983.8	10.1
120°-130°	790.5	8.2
130°-140°	621.3	6.4
140°-150°	476.5	4.9
150°-160°	342.5	3.5
160°-170°	209.4	2.2
170°-180°	70.6	0.7
0°-30°	2149.7	22.2
0°-40°	3167.3	32.7
0°-60°	4465.1	46.1
0°-90°	4901.3	50.6
90°-120°	2283.2	23.5
90°-150°	4171.5	43.0
90°-180°	4794.0	49.4
0°-180°	9695.3	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	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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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	13.9	13.7	9.2	8.3
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)