

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: P519057

Luminaire Tested: **SQ4-WB-025U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519057
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

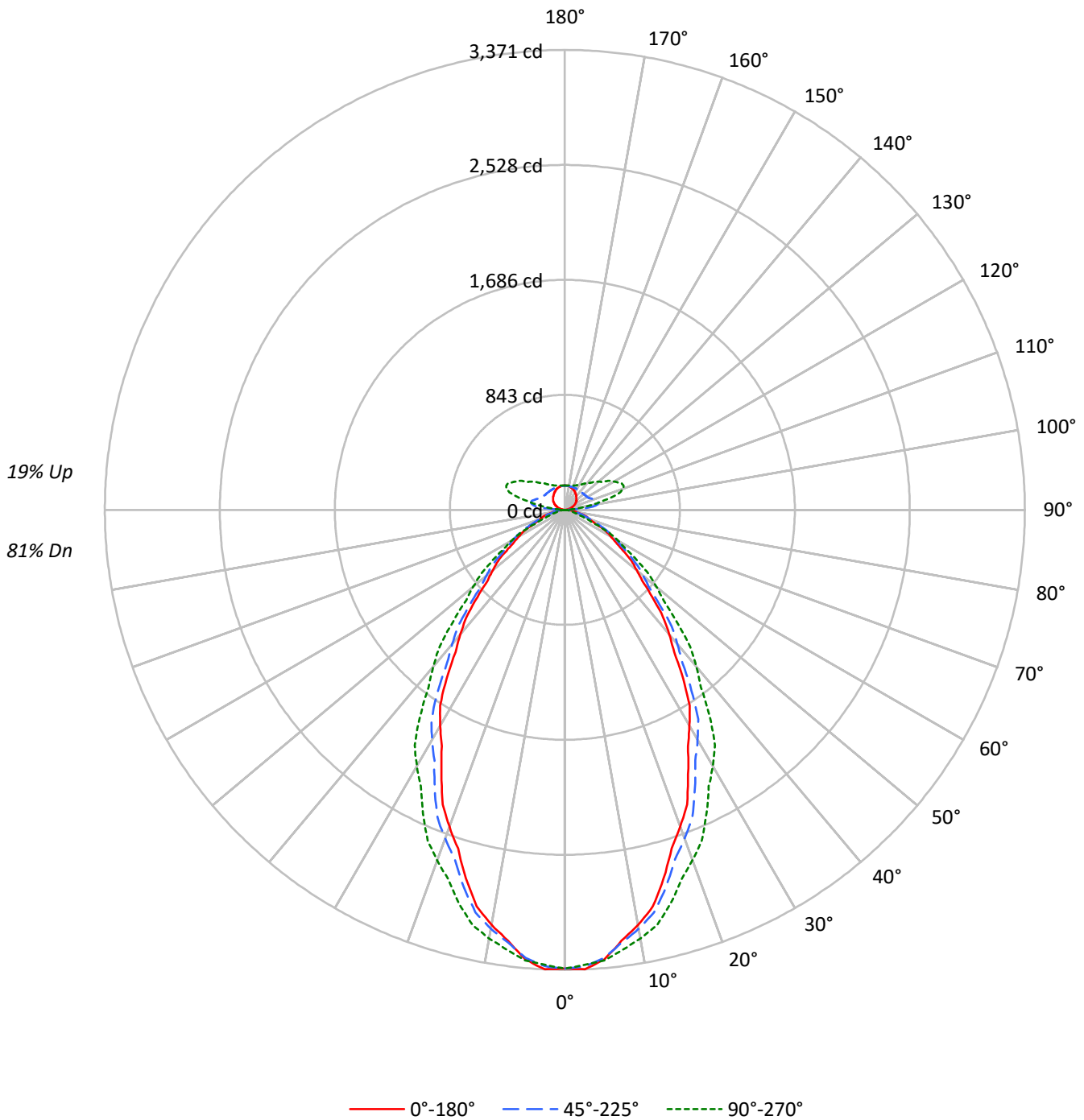
Lumens per Lamp: N/A
Luminaire Lumens: 6053.7 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81				
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72				
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

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	5.1
10°-20°	802.2	13.3
20°-30°	1039.1	17.2
30°-40°	1017.5	16.8
40°-50°	778.9	12.9
50°-60°	519.0	8.6
60°-70°	283.2	4.7
70°-80°	118.0	1.9
80°-90°	34.4	0.6
90°-100°	86.7	1.4
100°-110°	227.9	3.8
110°-120°	236.3	3.9
120°-130°	189.6	3.1
130°-140°	148.7	2.5
140°-150°	114.2	1.9
150°-160°	82.2	1.4
160°-170°	50.3	0.8
170°-180°	17.0	0.3
0°-30°	2149.7	35.5
0°-40°	3167.3	52.3
0°-60°	4465.1	73.8
0°-90°	4900.7	81.0
90°-120°	551.0	9.1
90°-150°	1003.4	16.6
90°-180°	1153.0	19.0
0°-180°	6053.7	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°	1	3	9	5	5	3
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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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°	13.2	13.7	13.6	8.0	6.8
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)