

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: P519061

Luminaire Tested: **SQ4-WB-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519061
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

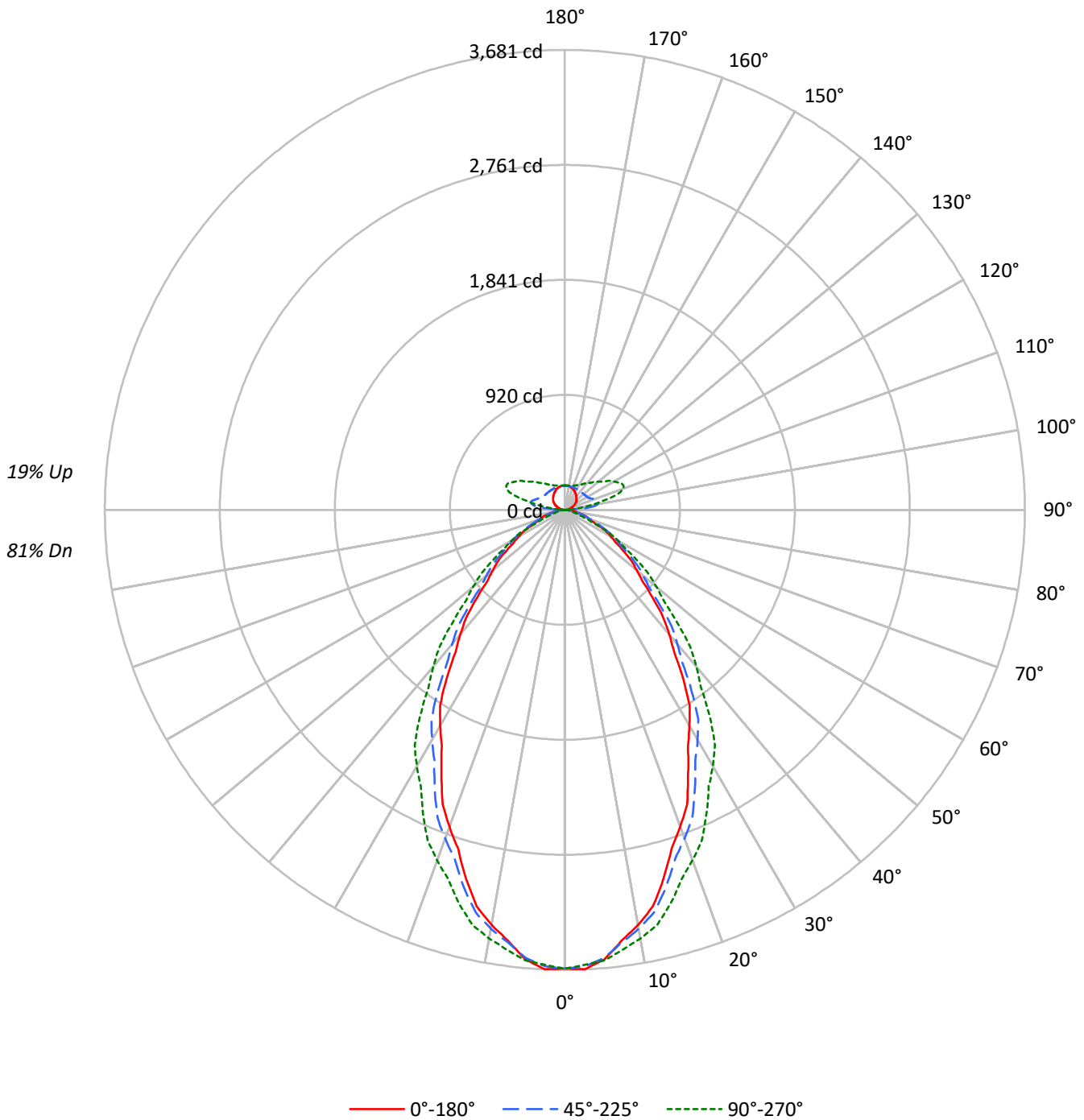
Lumens per Lamp: N/A
Luminaire Lumens: 6610.2 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21754
15°	19450	19902	20795
20°	17663	18328	19540
25°	15843	16707	18205
30°	14166	15092	16820
35°	12387	13282	15182
40°	10426	11254	13142
45°	8605	9347	10972
50°	7183	7831	9141
55°	6099	6720	7549
60°	5212	5826	6025
65°	4151	4900	3892
70°	3679	3825	2376
75°	3408	3101	1454
80°	3138	2855	1254
85°	2844	2618	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	5.1
10°-20°	876.0	13.3
20°-30°	1134.6	17.2
30°-40°	1111.1	16.8
40°-50°	850.5	12.9
50°-60°	566.7	8.6
60°-70°	309.2	4.7
70°-80°	128.9	1.9
80°-90°	37.5	0.6
90°-100°	94.7	1.4
100°-110°	248.9	3.8
110°-120°	258.1	3.9
120°-130°	207.0	3.1
130°-140°	162.4	2.5
140°-150°	124.6	1.9
150°-160°	89.8	1.4
160°-170°	54.9	0.8
170°-180°	18.6	0.3
0°-30°	2347.3	35.5
0°-40°	3458.4	52.3
0°-60°	4875.6	73.8
0°-90°	5351.2	81.0
90°-120°	601.6	9.1
90°-150°	1095.7	16.6
90°-180°	1259.0	19.0
0°-180°	6610.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3672	3672	3672	3672	3672	
5°	3612	3576	3599	3607	3620	336
15°	3054	3044	3125	3210	3266	853
25°	2334	2341	2462	2569	2682	1074
35°	1650	1658	1769	1888	2022	1026
45°	989	1008	1075	1156	1261	771
55°	569	592	627	650	704	516
65°	285	309	337	294	267	296
75°	143	143	130	90	61	153
85°	40	40	37	24	14	44
90°	1	4	10	5	5	3
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3671.6	3671.6	3671.6	3671.6	3671.6
2.5°	3680.6	3647.8	3656.1	3655.9	3645.8
5°	3612.0	3575.7	3599.1	3607.4	3620.0
7.5°	3477.9	3450.5	3493.1	3524.6	3550.1
10°	3373.5	3349.9	3404.1	3450.0	3483.1
12.5°	3252.4	3232.5	3299.7	3361.3	3404.5
15°	3054.5	3043.5	3125.4	3210.5	3265.6
17.5°	2842.8	2837.5	2931.5	3030.7	3101.3
20°	2698.5	2696.9	2800.0	2903.4	2985.3
22.5°	2552.9	2556.3	2664.7	2772.1	2865.4
25°	2334.4	2340.7	2461.7	2569.0	2682.4
27.5°	2132.4	2135.2	2260.3	2373.6	2494.5
30°	1994.5	2002.3	2125.0	2242.2	2368.2
32.5°	1856.6	1865.7	1985.8	2106.9	2235.5
35°	1649.7	1657.6	1768.9	1888.0	2021.9
37.5°	1436.4	1447.1	1546.0	1658.5	1790.2
40°	1298.5	1314.3	1401.6	1507.6	1636.8
42.5°	1165.8	1185.3	1266.3	1366.9	1483.4
45°	989.2	1008.1	1074.6	1155.9	1261.4
47.5°	837.1	858.8	909.9	980.0	1070.1
50°	750.7	771.2	818.4	870.3	955.3
52.5°	674.7	695.2	737.2	777.2	849.7
55°	568.7	592.3	626.7	650.5	704.0
57.5°	481.7	504.4	531.6	542.4	574.8
60°	423.7	448.9	473.6	472.4	489.8
62.5°	370.9	392.3	416.9	399.9	400.8
65°	285.2	308.8	336.7	294.2	267.4
67.5°	230.4	235.4	264.2	205.2	173.3
70°	204.6	204.6	212.7	158.9	132.1
72.5°	180.1	180.1	172.7	129.2	101.2
75°	143.4	143.4	130.5	89.6	61.2
77.5°	110.5	109.3	99.9	66.8	44.5
80°	88.6	88.6	80.6	52.8	35.4
82.5°	69.3	69.3	62.5	41.2	26.4
85°	40.3	40.3	37.1	24.0	14.5
87.5°	14.4	14.9	14.9	8.7	7.4
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)