

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: P519059

Luminaire Tested: **SQ4-WB-025U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519059
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-12
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

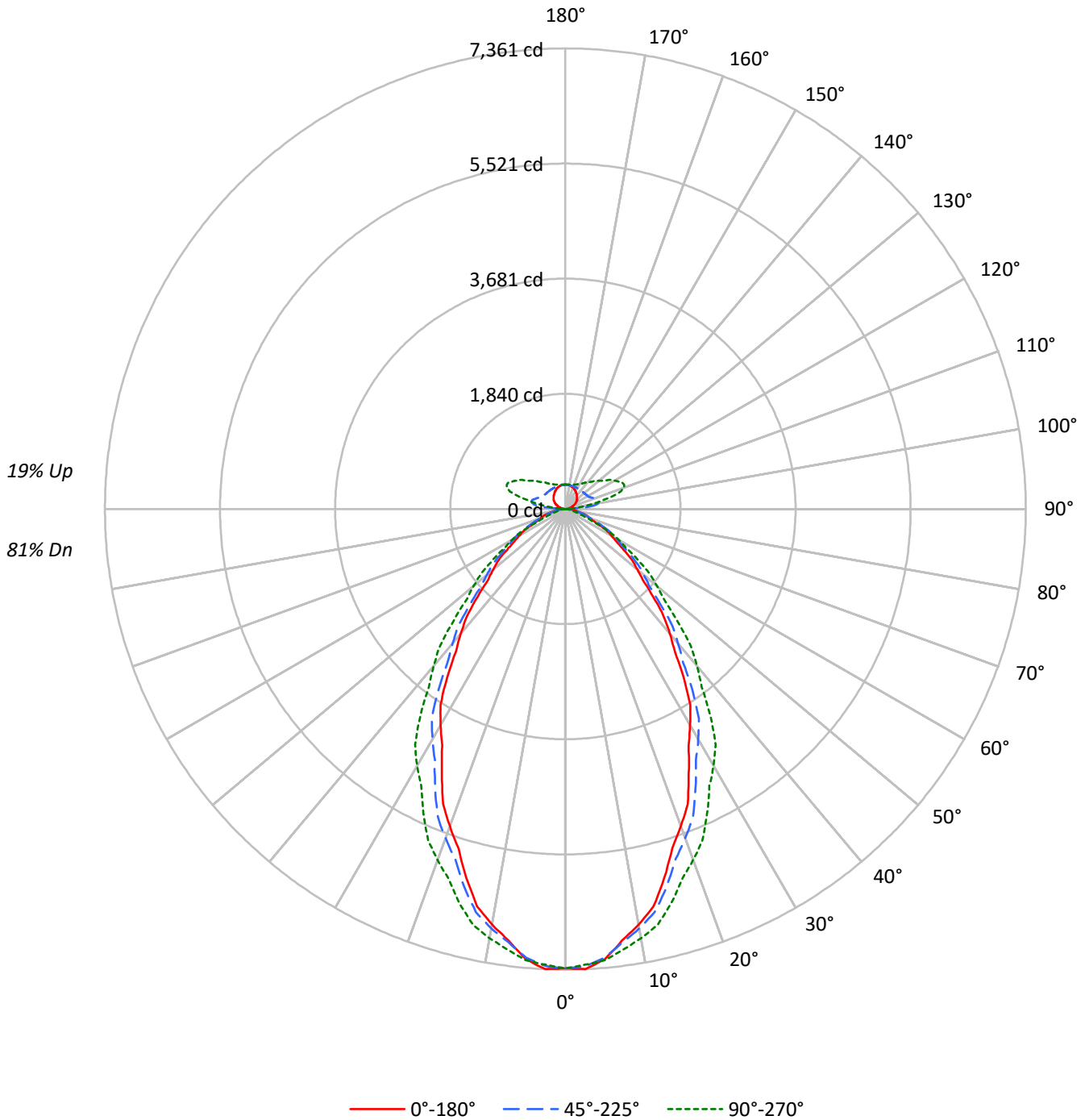
Lumens per Lamp: N/A
Luminaire Lumens: 13220.2 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	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°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5827	6025
65°	4150	4900	3892
70°	3679	3824	2376
75°	3408	3101	1454
80°	3138	2853	1256
85°	2844	2615	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.5	5.1
10°-20°	1751.9	13.3
20°-30°	2269.2	17.2
30°-40°	2222.1	16.8
40°-50°	1700.9	12.9
50°-60°	1133.4	8.6
60°-70°	618.5	4.7
70°-80°	257.7	1.9
80°-90°	75.1	0.6
90°-100°	189.3	1.4
100°-110°	497.7	3.8
110°-120°	516.1	3.9
120°-130°	414.0	3.1
130°-140°	324.8	2.5
140°-150°	249.3	1.9
150°-160°	179.6	1.4
160°-170°	109.9	0.8
170°-180°	37.1	0.3
0°-30°	4694.7	35.5
0°-40°	6916.8	52.3
0°-60°	9751.1	73.8
0°-90°	10702.4	81.0
90°-120°	1203.2	9.1
90°-150°	2191.3	16.6
90°-180°	2518.0	19.0
0°-180°	13220.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7343	7343	7343	7343	7343	
5°	7224	7152	7198	7215	7240	672
15°	6109	6087	6251	6421	6531	1706
25°	4669	4681	4923	5138	5365	2147
35°	3299	3315	3538	3776	4044	2051
45°	1978	2016	2149	2312	2523	1543
55°	1137	1185	1253	1301	1408	1031
65°	570	618	673	588	535	593
75°	287	287	261	179	122	306
85°	81	81	74	48	29	88
90°	2	7	20	10	10	6
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7343.1	7343.1	7343.1	7343.1	7343.1
2.5°	7361.2	7295.6	7312.2	7311.7	7291.6
5°	7223.9	7151.5	7198.1	7214.8	7240.0
7.5°	6955.8	6901.0	6986.1	7049.2	7100.2
10°	6747.0	6699.8	6808.3	6900.0	6966.2
12.5°	6504.7	6465.1	6599.5	6722.6	6808.9
15°	6109.1	6087.0	6250.8	6420.9	6531.2
17.5°	5685.7	5675.0	5862.9	6061.4	6202.5
20°	5397.0	5393.8	5600.0	5806.7	5970.5
22.5°	5105.7	5112.6	5329.3	5544.3	5730.8
25°	4668.8	4681.4	4923.3	5137.9	5364.8
27.5°	4264.8	4270.4	4520.6	4747.1	4989.1
30°	3988.9	4004.7	4249.9	4484.4	4736.5
32.5°	3713.1	3731.4	3971.5	4213.9	4471.0
35°	3299.4	3315.2	3537.9	3775.9	4043.7
37.5°	2872.8	2894.2	3091.9	3317.0	3580.4
40°	2597.0	2628.5	2803.2	3015.3	3273.6
42.5°	2331.5	2370.6	2532.6	2733.8	2966.9
45°	1978.4	2016.2	2149.1	2311.8	2522.9
47.5°	1674.2	1717.7	1819.8	1959.9	2140.1
50°	1501.5	1542.4	1636.8	1740.6	1910.7
52.5°	1349.4	1390.4	1474.4	1554.4	1699.3
55°	1137.4	1184.7	1253.4	1300.9	1408.1
57.5°	963.4	1008.8	1063.3	1084.7	1149.6
60°	847.4	897.8	947.3	944.9	979.5
62.5°	741.7	784.6	833.9	799.8	801.7
65°	570.3	617.6	673.4	588.4	534.9
67.5°	460.8	470.8	528.4	410.3	346.7
70°	409.2	409.2	425.3	317.8	264.2
72.5°	360.2	360.2	345.4	258.4	202.3
75°	286.8	286.8	261.0	179.1	122.4
77.5°	221.0	218.5	199.8	133.7	88.9
80°	177.2	177.2	161.1	105.5	70.9
82.5°	138.5	138.5	125.0	82.5	52.8
85°	80.6	80.6	74.1	47.9	29.0
87.5°	28.9	29.8	29.8	17.4	14.9
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)