

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: P519145

Luminaire Tested: **SQ4-WB-050U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519145
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

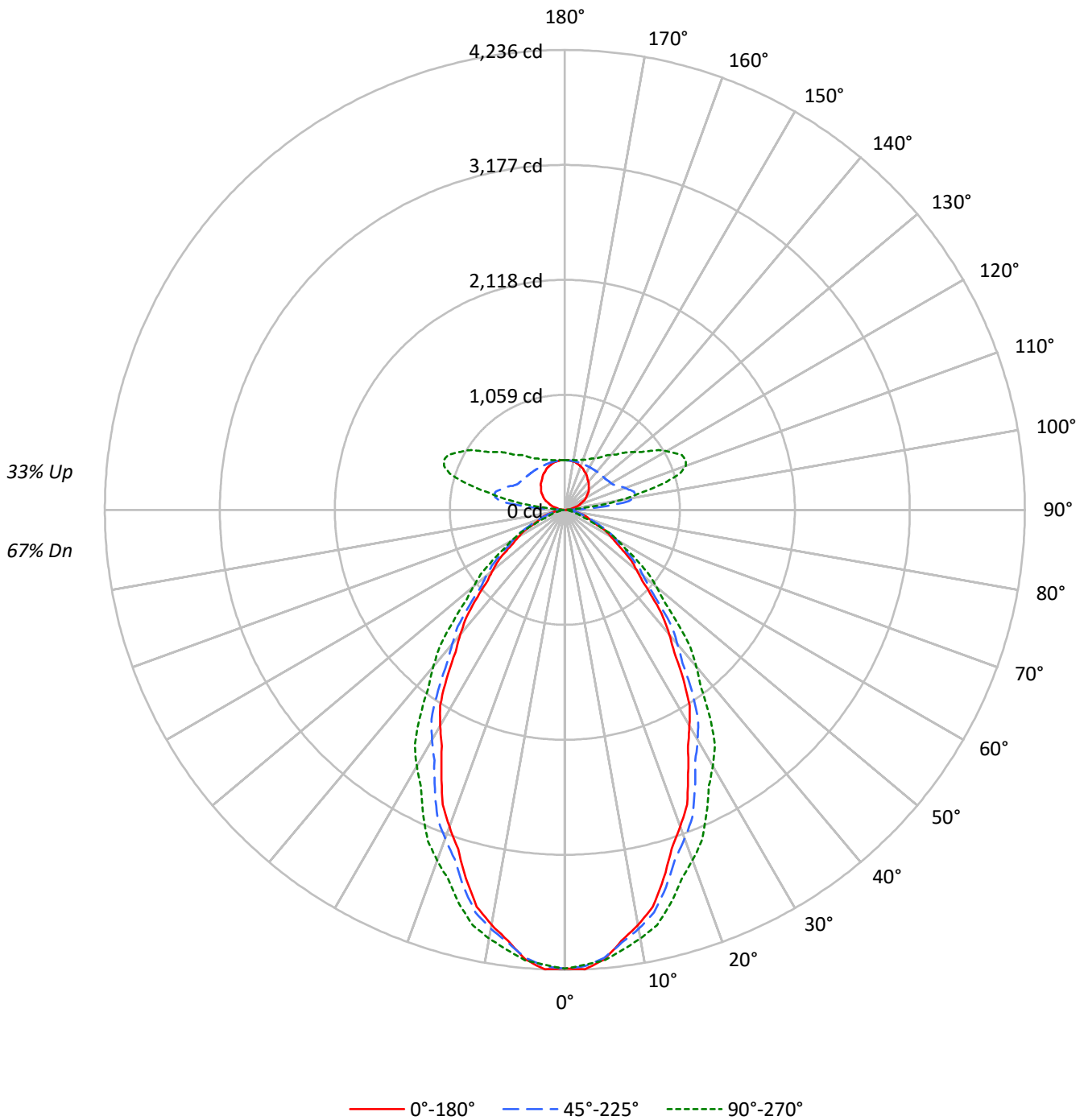
Lumens per Lamp: N/A
Luminaire Lumens: 9147.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	103	99	96	93	97	94	91	88	84	82	80	75	73	71	66	65	64	60				
2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53				
3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47				
4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41				
5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37				
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34				
7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31				
8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28				
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26				
10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25991	25991	25991
5°	25667	25575	25723
10°	24250	24469	25036
15°	22385	22905	23932
20°	20329	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15286	17472
40°	11999	12952	15126
45°	9902	10757	12629
50°	8268	9013	10521
55°	7019	7735	8689
60°	5998	6706	6934
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3569	1675
80°	3613	3284	1445
85°	3275	3006	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	4.2
10°-20°	1008.1	11.0
20°-30°	1305.8	14.3
30°-40°	1278.7	14.0
40°-50°	978.8	10.7
50°-60°	652.2	7.1
60°-70°	355.9	3.9
70°-80°	148.3	1.6
80°-90°	43.7	0.5
90°-100°	219.7	2.4
100°-110°	596.8	6.5
110°-120°	613.6	6.7
120°-130°	490.6	5.4
130°-140°	385.5	4.2
140°-150°	295.6	3.2
150°-160°	212.5	2.3
160°-170°	130.0	1.4
170°-180°	43.8	0.5
0°-30°	2701.5	29.5
0°-40°	3980.2	43.5
0°-60°	5611.2	61.3
0°-90°	6159.2	67.3
90°-120°	1430.0	15.6
90°-150°	2601.6	28.4
90°-180°	2988.0	32.7
0°-180°	9147.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4226	4226	4226	4226	4226	
5°	4157	4115	4142	4152	4166	387
15°	3515	3503	3597	3695	3758	982
25°	2687	2694	2833	2957	3087	1236
35°	1899	1908	2036	2173	2327	1180
45°	1138	1160	1237	1330	1452	888
55°	654	682	721	749	810	593
65°	328	355	388	339	308	341
75°	165	165	150	103	70	176
85°	46	46	43	28	17	50
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4225.6	4225.6	4225.6	4225.6	4225.6
2.5°	4236.0	4198.2	4207.8	4207.5	4195.9
5°	4157.0	4115.3	4142.1	4151.7	4166.2
7.5°	4002.7	3971.2	4020.1	4056.4	4085.8
10°	3882.6	3855.4	3917.8	3970.6	4008.6
12.5°	3743.1	3720.3	3797.6	3868.5	3918.2
15°	3515.4	3502.7	3597.0	3694.9	3758.3
17.5°	3271.8	3265.6	3373.8	3488.0	3569.2
20°	3105.7	3103.9	3222.5	3341.4	3435.7
22.5°	2938.1	2942.0	3066.7	3190.4	3297.8
25°	2686.6	2693.9	2833.1	2956.6	3087.1
27.5°	2454.1	2457.4	2601.3	2731.7	2870.9
30°	2295.4	2304.5	2445.6	2580.5	2725.6
32.5°	2136.7	2147.2	2285.4	2424.9	2572.8
35°	1898.6	1907.7	2035.8	2172.8	2326.9
37.5°	1653.1	1665.5	1779.2	1908.8	2060.3
40°	1494.4	1512.6	1613.1	1735.1	1883.8
42.5°	1341.7	1364.1	1457.3	1573.1	1707.3
45°	1138.4	1160.2	1236.7	1330.3	1451.8
47.5°	963.4	988.4	1047.2	1127.8	1231.5
50°	864.0	887.6	941.9	1001.6	1099.5
52.5°	776.5	800.1	848.5	894.5	977.9
55°	654.5	681.7	721.3	748.6	810.3
57.5°	554.4	580.5	611.9	624.2	661.6
60°	487.6	516.6	545.1	543.7	563.7
62.5°	426.8	451.5	479.8	460.2	461.3
65°	328.2	355.4	387.5	338.6	307.8
67.5°	265.1	270.9	304.1	236.1	199.5
70°	235.5	235.5	244.7	182.9	152.0
72.5°	207.3	207.3	198.8	148.7	116.4
75°	165.0	165.0	150.2	103.1	70.5
77.5°	127.2	125.7	115.0	76.9	51.2
80°	102.0	102.0	92.7	60.7	40.8
82.5°	79.7	79.7	71.9	47.4	30.4
85°	46.4	46.4	42.6	27.6	16.7
87.5°	16.6	17.5	16.9	11.5	10.1
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)