

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: P519241

Luminaire Tested: **SQ4-WB-075U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519241
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

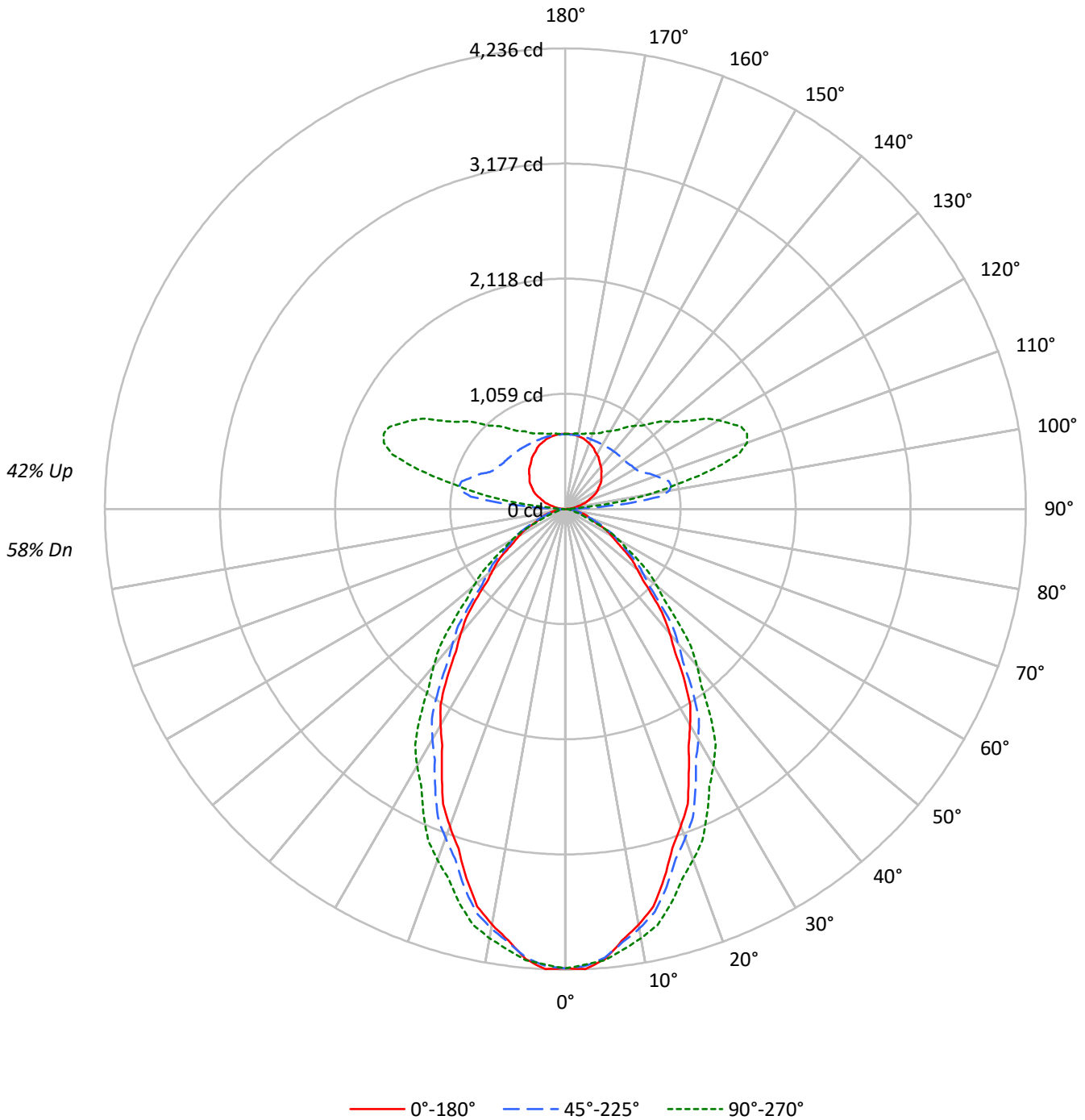
Lumens per Lamp: N/A
Luminaire Lumens: 10649.8 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

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	3.6
10°-20°	1008.1	9.5
20°-30°	1305.8	12.3
30°-40°	1278.7	12.0
40°-50°	978.8	9.2
50°-60°	652.2	6.1
60°-70°	355.9	3.3
70°-80°	148.3	1.4
80°-90°	43.7	0.4
90°-100°	325.1	3.1
100°-110°	894.5	8.4
110°-120°	923.3	8.7
120°-130°	739.7	6.9
130°-140°	581.0	5.5
140°-150°	445.2	4.2
150°-160°	320.1	3.0
160°-170°	195.7	1.8
170°-180°	66.0	0.6
0°-30°	2701.5	25.4
0°-40°	3980.2	37.4
0°-60°	5611.2	52.7
0°-90°	6159.2	57.8
90°-120°	2142.9	20.1
90°-150°	3908.8	36.7
90°-180°	4491.0	42.2
0°-180°	10649.8	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	5
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	



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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°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)