

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: P519048

Luminaire Tested: **SQ4-WB-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519048
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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

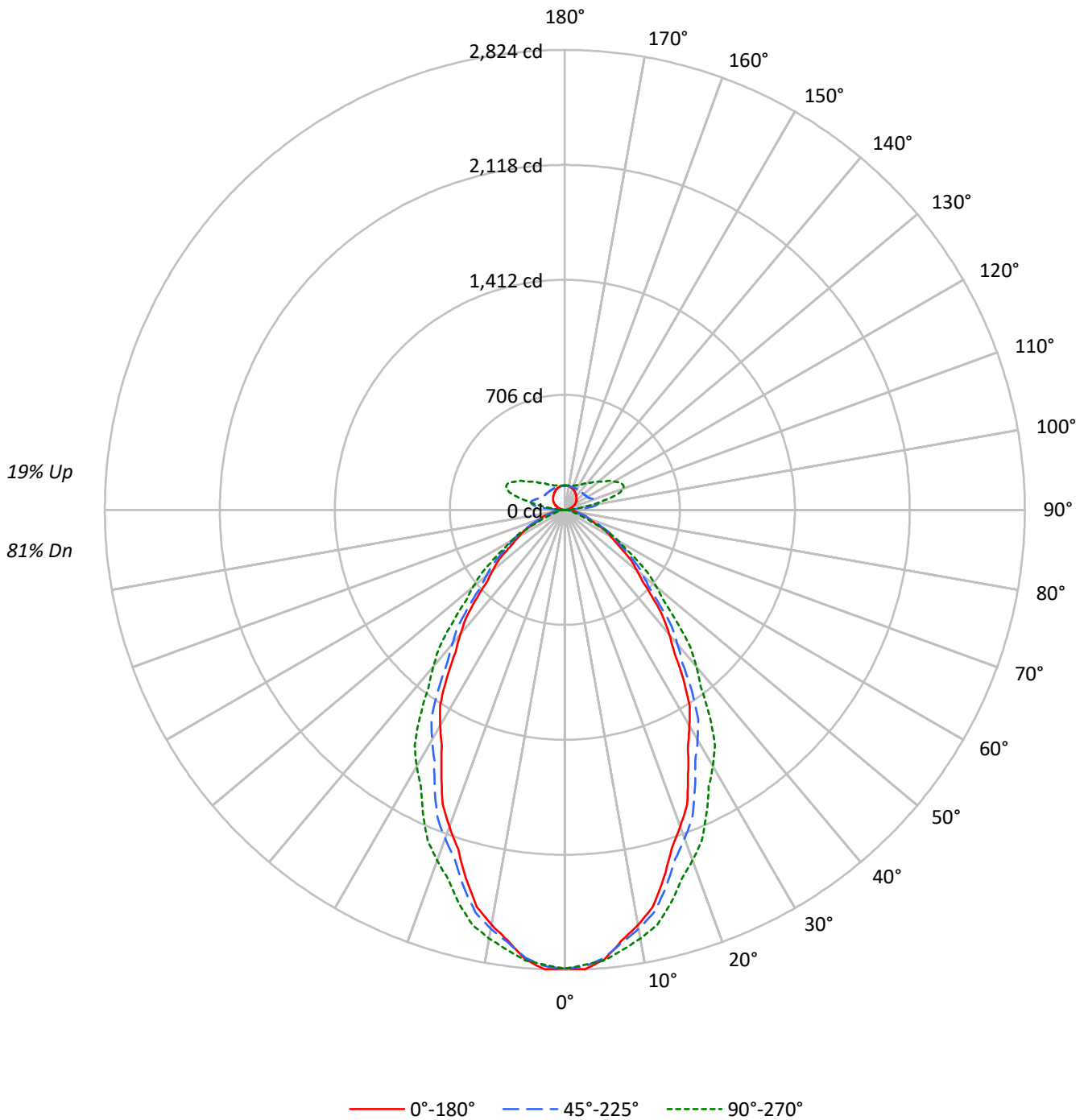
Lumens per Lamp: N/A
Luminaire Lumens: 5071.7 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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									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	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																			81									
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72																			72									
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63																			63									
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56																			56									
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50																			50									
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45																			45									
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40																			40									
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37																			37									
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34																			34									
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31																			31									
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28																			28									

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25990	25990	25990
5°	25666	25575	25724
10°	24250	24470	25036
15°	22385	22905	23933
20°	20328	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14257	15286	17472
40°	11999	12952	15126
45°	9903	10758	12629
50°	8268	9013	10521
55°	7018	7734	8689
60°	5999	6706	6934
65°	4777	5639	4480
70°	4235	4402	2735
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	5.1
10°-20°	672.1	13.3
20°-30°	870.5	17.2
30°-40°	852.5	16.8
40°-50°	652.5	12.9
50°-60°	434.8	8.6
60°-70°	237.3	4.7
70°-80°	98.9	1.9
80°-90°	28.8	0.6
90°-100°	72.6	1.4
100°-110°	190.9	3.8
110°-120°	198.0	3.9
120°-130°	158.8	3.1
130°-140°	124.6	2.5
140°-150°	95.6	1.9
150°-160°	68.9	1.4
160°-170°	42.1	0.8
170°-180°	14.2	0.3
0°-30°	1801.0	35.5
0°-40°	2653.5	52.3
0°-60°	3740.8	73.8
0°-90°	4105.8	81.0
90°-120°	461.6	9.1
90°-150°	840.6	16.6
90°-180°	966.0	19.0
0°-180°	5071.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2817	2817	2817	2817	2817	
5°	2771	2744	2761	2768	2778	258
15°	2344	2335	2398	2463	2506	654
25°	1791	1796	1889	1971	2058	824
35°	1266	1272	1357	1449	1551	787
45°	759	774	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2824.0	2798.8	2805.2	2805.0	2797.3
5°	2771.3	2743.5	2761.4	2767.8	2777.5
7.5°	2668.5	2647.4	2680.1	2704.3	2723.8
10°	2588.4	2570.2	2611.9	2647.0	2672.4
12.5°	2495.4	2480.2	2531.8	2579.0	2612.1
15°	2343.6	2335.2	2398.0	2463.3	2505.6
17.5°	2181.2	2177.1	2249.2	2325.3	2379.5
20°	2070.4	2069.2	2148.3	2227.6	2290.5
22.5°	1958.7	1961.4	2044.5	2127.0	2198.5
25°	1791.1	1795.9	1888.7	1971.1	2058.1
27.5°	1636.1	1638.3	1734.2	1821.1	1914.0
30°	1530.3	1536.3	1630.4	1720.4	1817.1
32.5°	1424.5	1431.5	1523.6	1616.6	1715.2
35°	1265.8	1271.8	1357.2	1448.6	1551.3
37.5°	1102.1	1110.3	1186.2	1272.5	1373.5
40°	996.3	1008.4	1075.4	1156.8	1255.9
42.5°	894.4	909.4	971.6	1048.8	1138.2
45°	759.0	773.5	824.5	886.9	967.9
47.5°	642.3	659.0	698.1	751.9	821.0
50°	576.0	591.7	627.9	667.7	733.0
52.5°	517.7	533.4	565.6	596.3	651.9
55°	436.3	454.5	480.8	499.1	540.2
57.5°	369.6	387.0	407.9	416.1	441.0
60°	325.1	344.4	363.4	362.5	375.8
62.5°	284.5	301.0	319.9	306.8	307.5
65°	218.8	236.9	258.3	225.7	205.2
67.5°	176.8	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.2	121.9	101.4
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.2	53.2	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	11.1	11.4	11.4	6.7	5.7
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)