

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521753

Luminaire Tested: **SQ4-WB-025U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521753  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-025U-125D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

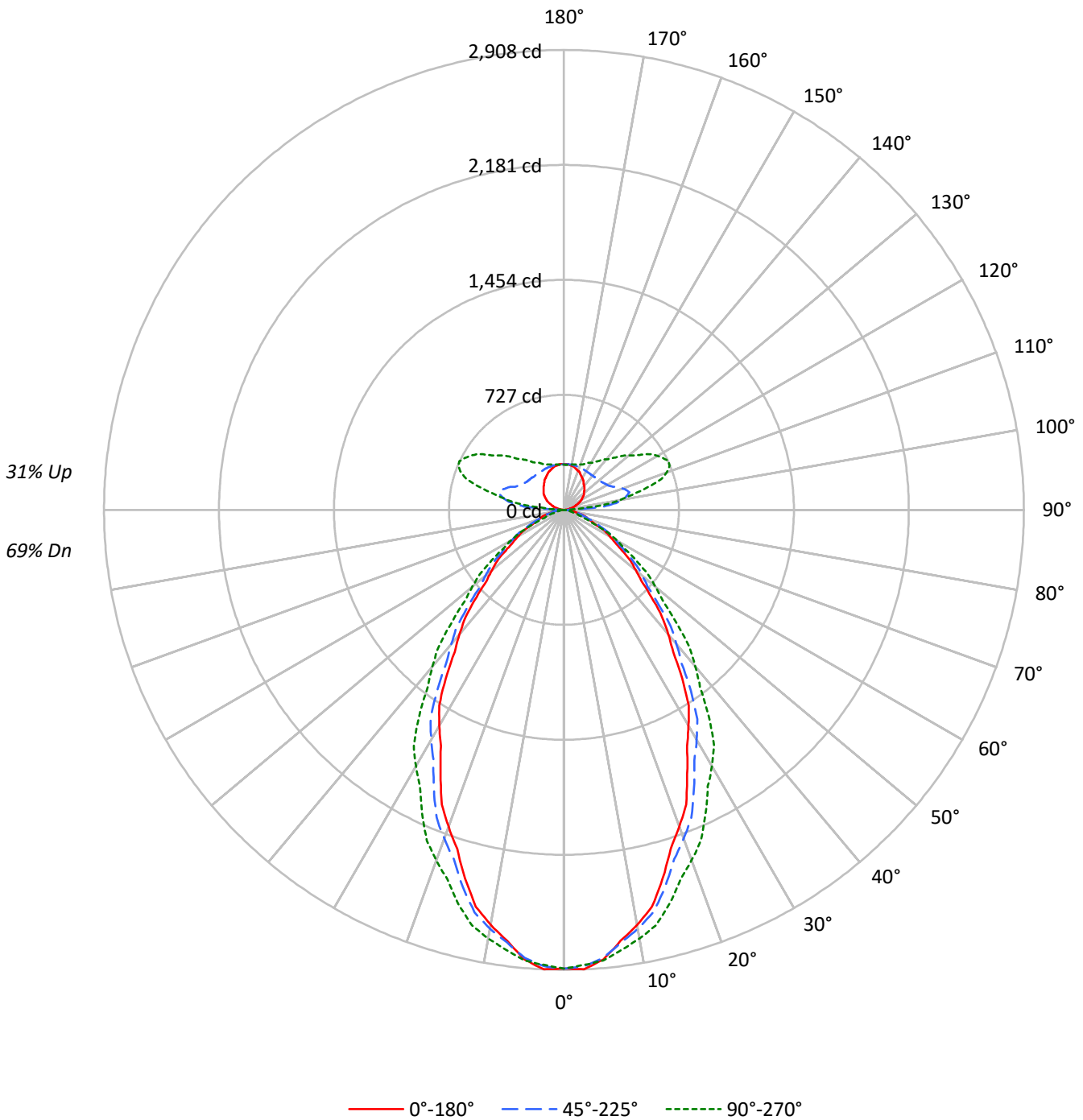
Lumens per Lamp: N/A  
Luminaire Lumens: 6082.4 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.9  
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69				
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	67	66	62				
2	96	89	84	79	91	85	80	76	76	73	70	69	66	64	62	60	58	54				
3	89	80	73	68	84	76	70	65	69	64	61	62	59	56	56	54	51	48				
4	82	72	65	59	78	69	62	57	63	57	53	57	53	49	52	48	46	43				
5	76	65	58	52	72	62	56	51	57	52	47	52	48	44	47	44	41	38				
6	71	59	52	46	67	57	50	45	52	47	42	48	43	40	44	40	37	35				
7	66	54	47	42	63	52	45	41	48	42	38	44	39	36	40	37	34	32				
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	38	34	31	29				
9	58	46	39	34	55	44	38	33	41	36	32	38	33	30	35	31	28	26				
10	54	43	36	31	52	41	35	31	38	33	29	36	31	28	33	29	26	24				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	26765	26765	26765
5°	26431	26337	26490
10°	24972	25199	25782
15°	23052	23587	24645
20°	20934	21721	23158
25°	18776	19800	21575
30°	16789	17887	19935
35°	14681	15742	17993
40°	12357	13337	15576
45°	10198	11078	13005
50°	8514	9281	10834
55°	7227	7965	8948
60°	6178	6905	7141
65°	4919	5807	4613
70°	4362	4532	2816
75°	4039	3675	1725
80°	3719	3379	1488
85°	3366	3102	1217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.1	4.4
10°-20°	692.1	11.4
20°-30°	896.5	14.7
30°-40°	877.9	14.4
40°-50°	672.0	11.0
50°-60°	447.8	7.4
60°-70°	244.3	4.0
70°-80°	101.8	1.7
80°-90°	28.8	0.5
90°-100°	147.7	2.4
100°-110°	357.0	5.9
110°-120°	380.7	6.3
120°-130°	308.4	5.1
130°-140°	238.7	3.9
140°-150°	182.1	3.0
150°-160°	131.8	2.2
160°-170°	81.2	1.3
170°-180°	27.5	0.5
0°-30°	1854.7	30.5
0°-40°	2732.5	44.9
0°-60°	3852.3	63.3
0°-90°	4227.2	69.5
90°-120°	885.4	14.6
90°-150°	1614.6	26.5
90°-180°	1855.0	30.5
0°-180°	6082.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2901	2901	2901	2901	2901	
5°	2854	2825	2844	2850	2860	265
15°	2413	2405	2469	2537	2580	674
25°	1844	1849	1945	2030	2119	848
35°	1304	1310	1398	1492	1598	810
45°	782	796	849	913	997	610
55°	449	468	495	514	556	407
65°	225	244	266	232	211	234
75°	113	113	103	71	48	121
85°	32	32	29	19	12	35
90°	0	0	0	0	0	2
95°	15	74	253	164	115	16
105°	57	99	429	555	548	60
115°	104	134	345	654	729	103
125°	149	171	299	520	610	133
135°	183	204	287	410	472	141
145°	216	232	282	348	376	135
155°	248	258	285	308	320	114
165°	274	278	289	293	297	77
175°	290	288	290	287	286	27
180°	286	286	286	286	286	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2901.0	2901.0	2901.0	2901.0	2901.0
2.5°	2908.1	2882.2	2888.7	2888.6	2880.6
5°	2853.9	2825.2	2843.7	2850.3	2860.2
7.5°	2748.0	2726.3	2759.9	2784.8	2805.0
10°	2665.5	2646.8	2689.7	2725.9	2752.0
12.5°	2569.7	2554.1	2607.2	2655.8	2689.9
15°	2413.4	2404.7	2469.4	2536.6	2580.2
17.5°	2246.2	2241.9	2316.2	2394.6	2450.3
20°	2132.1	2130.9	2212.3	2294.0	2358.7
22.5°	2017.0	2019.8	2105.4	2190.3	2264.0
25°	1844.4	1849.4	1945.0	2029.8	2119.4
27.5°	1684.8	1687.1	1785.9	1875.4	1971.0
30°	1575.9	1582.1	1679.0	1771.6	1871.2
32.5°	1466.9	1474.1	1569.0	1664.7	1766.3
35°	1303.5	1309.7	1397.7	1491.7	1597.5
37.5°	1134.9	1143.4	1221.5	1310.4	1414.5
40°	1026.0	1038.4	1107.4	1191.2	1293.3
42.5°	921.1	936.5	1000.5	1080.0	1172.1
45°	781.6	796.5	849.0	913.3	996.7
47.5°	661.4	678.6	718.9	774.3	845.5
50°	593.2	609.4	646.6	687.6	754.8
52.5°	533.1	549.3	582.5	614.1	671.3
55°	449.3	468.0	495.2	513.9	556.3
57.5°	380.6	398.5	420.1	428.5	454.2
60°	334.8	354.7	374.2	373.3	387.0
62.5°	293.0	310.0	329.4	316.0	316.7
65°	225.3	244.0	266.0	232.5	211.3
67.5°	182.0	186.0	208.8	162.1	137.0
70°	161.7	161.7	168.0	125.5	104.4
72.5°	142.3	142.3	136.5	102.1	79.9
75°	113.3	113.3	103.1	70.8	48.4
77.5°	87.3	86.3	78.9	52.8	35.1
80°	70.0	70.0	63.6	41.7	28.0
82.5°	54.7	54.7	49.4	32.6	20.9
85°	31.8	31.8	29.3	18.9	11.5
87.5°	11.2	11.2	10.2	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.0	94.2	45.8	31.1
95°	14.6	73.9	253.1	164.5	115.3
97.5°	25.9	81.9	333.3	321.1	275.6
100°	34.6	86.8	377.5	398.5	361.1
102.5°	42.8	91.3	406.6	462.9	440.7
105°	57.0	98.6	429.0	555.1	548.0
107.5°	71.0	107.2	415.8	629.1	645.8
110°	80.7	114.5	394.4	661.0	692.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	90.4	121.9	375.5	668.7	722.5
115°	104.4	133.5	344.7	653.5	728.8
117.5°	118.2	145.6	326.6	618.3	706.6
120°	127.4	153.0	314.9	590.7	683.3
122.5°	137.1	160.8	307.7	562.5	653.7
125°	148.7	171.2	299.2	519.7	610.5
127.5°	160.1	181.3	293.2	483.4	563.1
130°	166.9	187.6	291.3	458.1	536.4
132.5°	173.2	194.9	288.4	439.9	506.3
135°	182.7	204.0	287.0	409.8	471.5
137.5°	191.6	213.1	282.8	389.4	436.0
140°	198.4	218.0	282.8	374.8	417.5
142.5°	205.2	224.8	280.4	362.0	398.1
145°	216.0	232.1	281.6	348.3	375.6
147.5°	226.1	241.7	280.8	332.6	355.1
150°	232.4	246.1	282.8	325.7	343.5
152.5°	239.2	252.4	282.3	318.3	334.2
155°	247.6	258.3	285.2	308.5	319.8
157.5°	257.7	266.8	284.6	304.8	311.4
160°	261.5	269.3	287.0	299.9	304.6
162.5°	267.9	274.6	286.1	298.4	301.2
165°	273.7	277.8	288.9	293.2	297.4
167.5°	280.8	283.6	288.1	292.9	293.0
170°	282.8	284.6	290.1	289.5	292.5
172.5°	286.2	287.5	288.6	289.9	288.1
175°	289.5	288.3	289.5	287.0	286.4
177.5°	288.9	288.9	287.9	286.9	284.5
180°	286.4	286.4	286.4	286.4	286.4

(END OF REPORT)