

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: P521857

Luminaire Tested: **SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521857  
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-075U-125D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

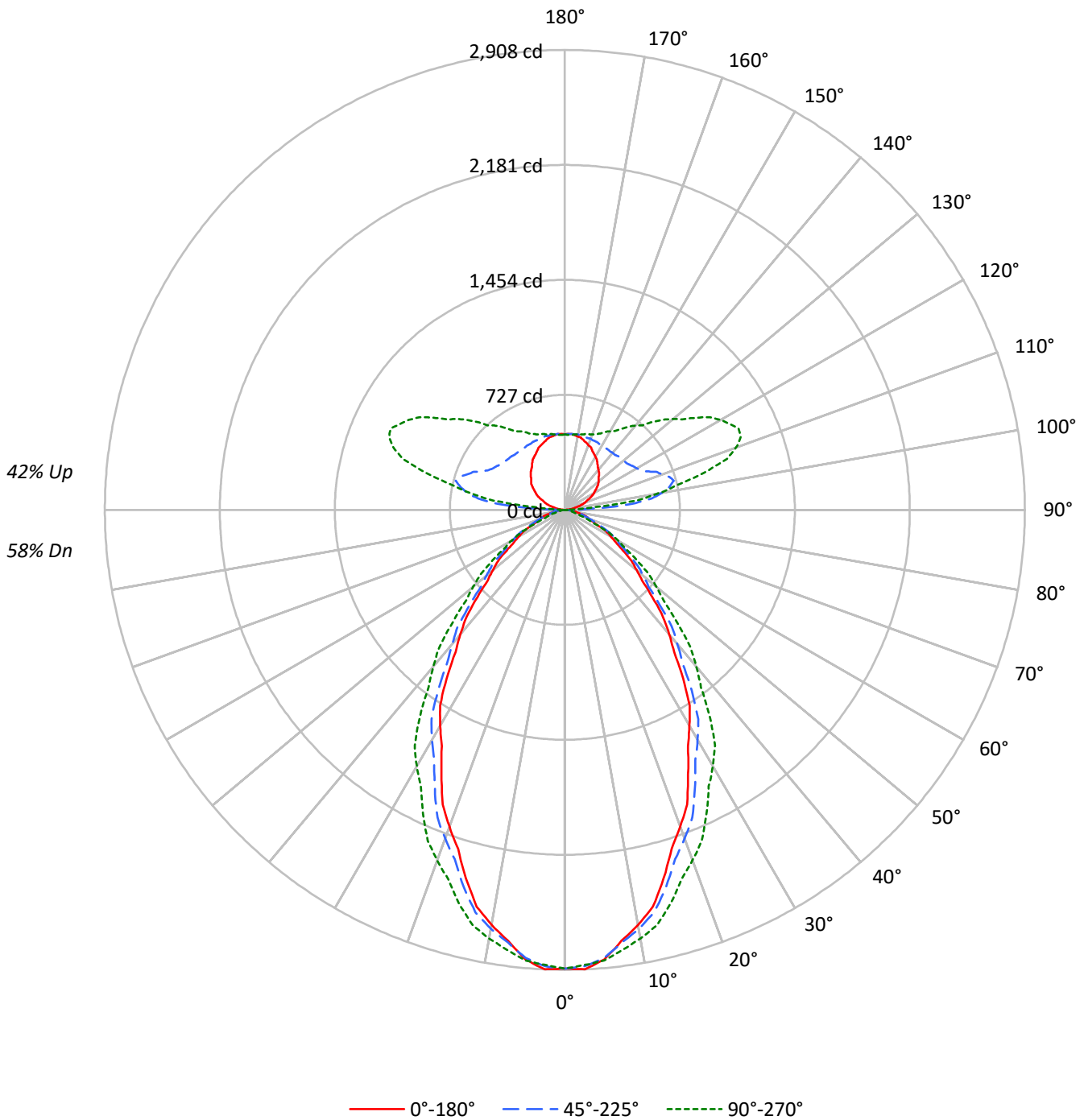
Lumens per Lamp: N/A  
Luminaire Lumens: 7316.8 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.2  
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	50	30	10	0		
RCR																										
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58	58	58	58	58	58	58		
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51	51	51	51	51	51	51		
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45	45	45	45	45	45	45		
3	86	77	70	65	80	72	67	62	64	59	56	56	52	49	48	46	44	40	40	40	40	40	40	40		
4	79	69	62	57	74	65	59	54	58	53	49	50	47	44	44	41	39	36	36	36	36	36	36	36		
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32	32	32	32	32	32	32		
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29	29	29	29	29	29	29		
7	63	52	44	39	59	49	42	38	44	38	35	39	35	32	34	31	29	26	26	26	26	26	26	26		
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24	24	24	24	24	24	24		
9	55	44	37	32	52	42	35	31	37	32	28	34	29	26	30	26	24	22	22	22	22	22	22	22		
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20	20	20	20	20	20	20		

**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	3.6
10°-20°	692.1	9.5
20°-30°	896.5	12.3
30°-40°	877.9	12.0
40°-50°	672.0	9.2
50°-60°	447.8	6.1
60°-70°	244.3	3.3
70°-80°	101.8	1.4
80°-90°	28.8	0.4
90°-100°	246.0	3.4
100°-110°	594.5	8.1
110°-120°	634.1	8.7
120°-130°	513.5	7.0
130°-140°	397.6	5.4
140°-150°	303.3	4.1
150°-160°	219.6	3.0
160°-170°	135.2	1.8
170°-180°	45.8	0.6
0°-30°	1854.7	25.3
0°-40°	2732.5	37.3
0°-60°	3852.3	52.6
0°-90°	4227.2	57.8
90°-120°	1474.5	20.2
90°-150°	2689.0	36.8
90°-180°	3090.0	42.2
0°-180°	7316.8	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	3
95°	24	123	421	274	192	27
105°	95	164	714	924	913	100
115°	174	222	574	1088	1214	172
125°	248	285	498	866	1017	221
135°	304	340	478	682	785	235
145°	360	386	469	580	626	225
155°	412	430	475	514	533	190
165°	456	463	481	488	495	129
175°	482	480	482	478	477	46
180°	477	477	477	477	477	

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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°	8.1	66.6	156.9	76.3	51.7
95°	24.3	123.1	421.4	274.0	192.0
97.5°	43.1	136.3	555.0	534.7	459.0
100°	57.6	144.6	628.6	663.6	601.3
102.5°	71.4	152.0	677.1	770.9	733.9
105°	95.0	164.2	714.5	924.5	912.6
107.5°	118.2	178.5	692.5	1047.7	1075.5
110°	134.4	190.7	656.9	1100.8	1153.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	150.6	203.0	625.4	1113.7	1203.3
115°	173.8	222.3	574.0	1088.3	1213.8
117.5°	196.9	242.5	543.9	1029.8	1176.8
120°	212.2	254.7	524.5	983.8	1138.0
122.5°	228.4	267.7	512.4	936.9	1088.7
125°	247.6	285.2	498.2	865.5	1016.7
127.5°	266.6	302.0	488.3	805.1	937.9
130°	277.9	312.5	485.1	763.0	893.4
132.5°	288.4	324.6	480.3	732.6	843.3
135°	304.2	339.8	478.0	682.5	785.3
137.5°	319.2	354.9	471.0	648.6	726.0
140°	330.5	363.1	471.0	624.2	695.3
142.5°	341.8	374.4	466.9	602.9	663.0
145°	359.8	386.5	468.9	580.1	625.6
147.5°	376.6	402.5	467.7	553.9	591.4
150°	387.1	409.8	471.0	542.4	572.0
152.5°	398.4	420.3	470.2	530.2	556.7
155°	412.3	430.1	475.0	513.8	532.6
157.5°	429.1	444.3	474.0	507.6	518.7
160°	435.6	448.4	478.0	499.4	507.3
162.5°	446.1	457.4	476.4	496.9	501.7
165°	455.8	462.7	481.1	488.3	495.2
167.5°	467.7	472.3	479.9	487.7	487.9
170°	471.0	473.9	483.1	482.2	487.1
172.5°	476.6	478.8	480.7	482.8	479.9
175°	482.1	480.1	482.1	478.0	477.0
177.5°	481.1	481.1	479.4	477.7	473.8
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)