

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: P521885

Luminaire Tested: **SQ4-WB-0U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521885  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-075D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

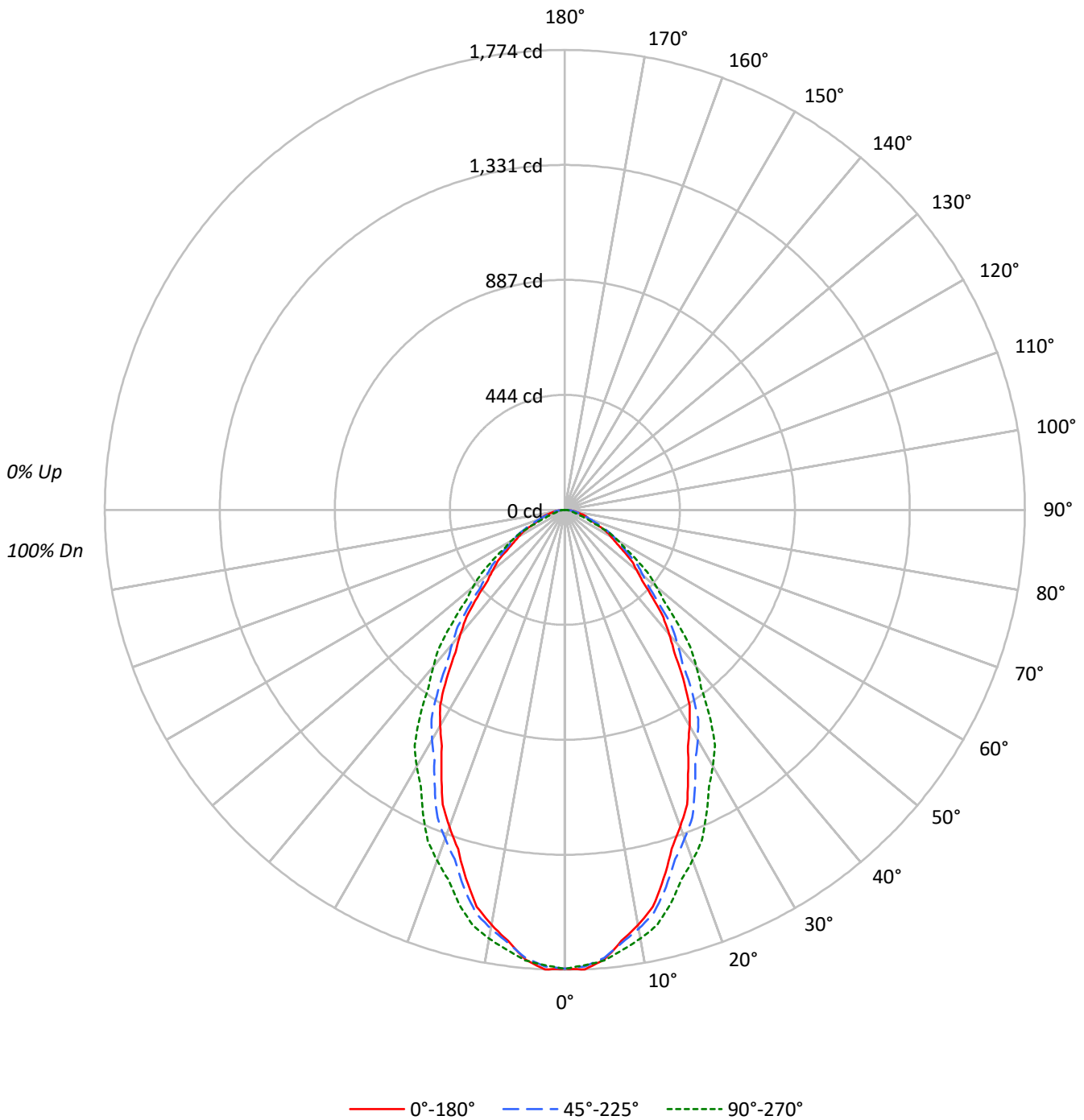
Lumens per Lamp: N/A  
Luminaire Lumens: 2579.2 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
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	
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°	45°	90°
0°	16330	16330	16330
5°	16127	16070	16163
10°	15236	15375	15732
15°	14066	14391	15037
20°	12773	13253	14131
25°	11457	12081	13165
30°	10243	10913	12163
35°	8958	9605	10978
40°	7540	8138	9504
45°	6223	6759	7934
50°	5195	5662	6611
55°	4411	4859	5459
60°	3770	4213	4357
65°	3002	3543	2814
70°	2660	2765	1718
75°	2463	2242	1052
80°	2269	2062	909
85°	2054	1895	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	6.3
10°-20°	422.3	16.4
20°-30°	547.0	21.2
30°-40°	535.6	20.8
40°-50°	410.0	15.9
50°-60°	273.2	10.6
60°-70°	149.1	5.8
70°-80°	62.1	2.4
80°-90°	17.6	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1131.6	43.9
0°-40°	1667.3	64.6
0°-60°	2350.5	91.1
0°-90°	2579.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1741	1724	1735	1739	1745	162
15°	1473	1467	1507	1548	1574	411
25°	1125	1128	1187	1238	1293	518
35°	795	799	853	910	975	494
45°	477	486	518	557	608	372
55°	274	286	302	314	339	249
65°	138	149	162	142	129	143
75°	69	69	63	43	30	74
85°	19	19	18	12	7	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1770.0	1770.0	1770.0	1770.0	1770.0
2.5°	1774.4	1758.6	1762.6	1762.5	1757.6
5°	1741.3	1723.8	1735.1	1739.1	1745.2
7.5°	1676.7	1663.5	1684.0	1699.2	1711.5
10°	1626.3	1615.0	1641.1	1663.2	1679.2
12.5°	1567.9	1558.4	1590.8	1620.4	1641.3
15°	1472.6	1467.2	1506.7	1547.7	1574.3
17.5°	1370.5	1367.9	1413.2	1461.1	1495.1
20°	1300.9	1300.2	1349.8	1399.7	1439.2
22.5°	1230.7	1232.4	1284.6	1336.4	1381.4
25°	1125.4	1128.4	1186.7	1238.5	1293.2
27.5°	1028.0	1029.4	1089.7	1144.3	1202.6
30°	961.5	965.3	1024.4	1080.9	1141.7
32.5°	895.0	899.4	957.3	1015.7	1077.7
35°	795.3	799.1	852.8	910.2	974.7
37.5°	692.5	697.6	745.3	799.5	863.0
40°	626.0	633.6	675.7	726.8	789.1
42.5°	562.0	571.4	610.5	659.0	715.2
45°	476.9	486.0	518.0	557.3	608.1
47.5°	403.6	414.0	438.7	472.4	515.9
50°	361.9	371.8	394.5	419.6	460.6
52.5°	325.3	335.1	355.4	374.7	409.6
55°	274.2	285.6	302.1	313.6	339.4
57.5°	232.2	243.2	256.3	261.5	277.1
60°	204.3	216.4	228.3	227.8	236.1
62.5°	178.8	189.1	201.0	192.8	193.2
65°	137.5	148.9	162.3	141.8	128.9
67.5°	111.1	113.5	127.4	98.9	83.6
70°	98.6	98.6	102.5	76.6	63.7
72.5°	86.8	86.8	83.3	62.3	48.8
75°	69.1	69.1	62.9	43.2	29.5
77.5°	53.3	52.7	48.2	32.2	21.4
80°	42.7	42.7	38.8	25.4	17.1
82.5°	33.4	33.4	30.1	19.9	12.7
85°	19.4	19.4	17.9	11.5	7.0
87.5°	6.8	6.8	6.2	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)