

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: P521727

Luminaire Tested: **SQ4-WB-025U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521727  
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-075D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 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**

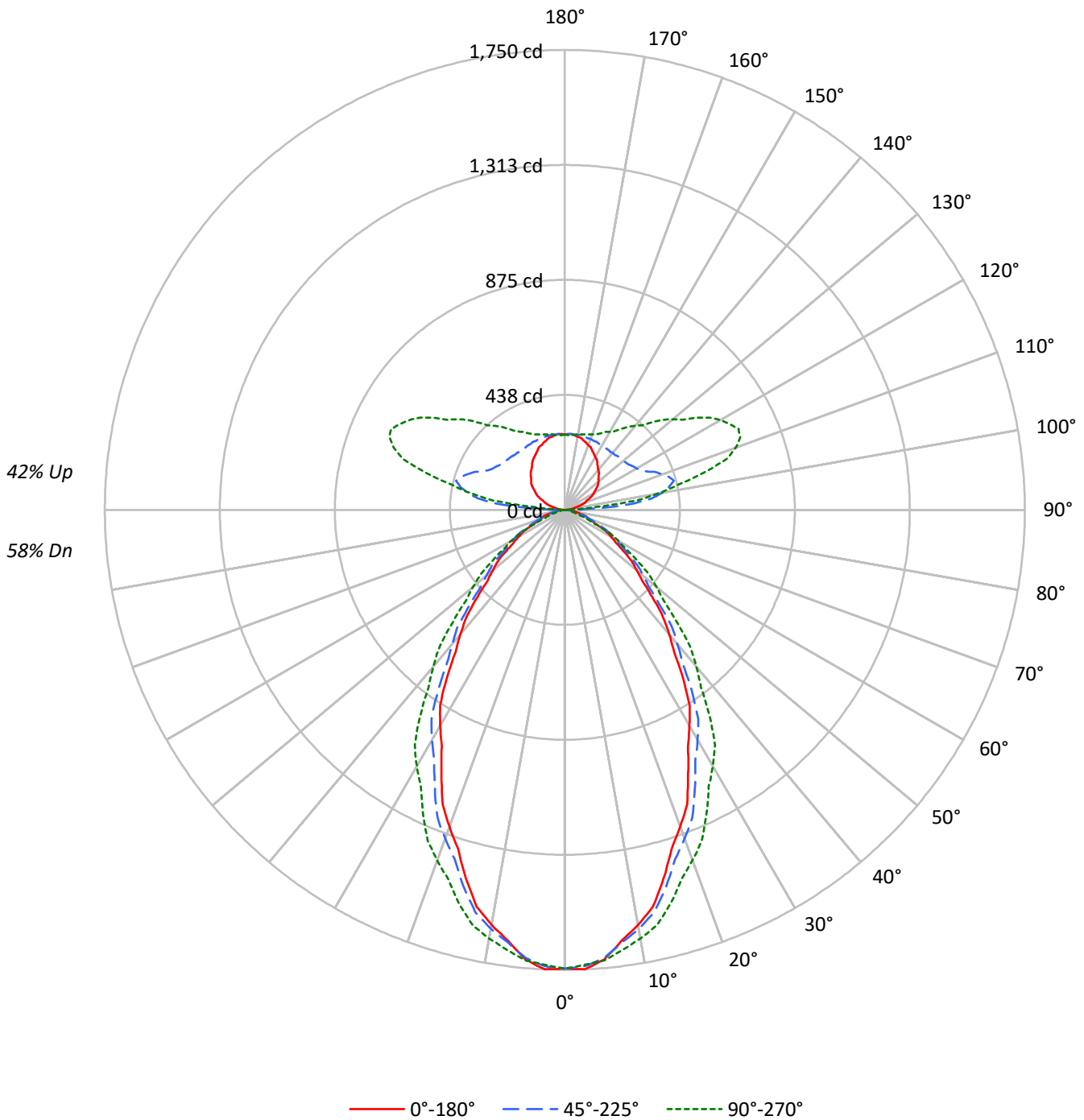
Lumens per Lamp: N/A  
Luminaire Lumens: 4398.9 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 45.9  
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	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°	16106	16106	16106
5°	15906	15848	15941
10°	15027	15163	15515
15°	13872	14194	14831
20°	12597	13071	13936
25°	11299	11915	12984
30°	10103	10763	11996
35°	8835	9473	10827
40°	7436	8026	9374
45°	6136	6666	7826
50°	5124	5585	6519
55°	4349	4793	5384
60°	3718	4155	4298
65°	2960	3495	2777
70°	2625	2727	1694
75°	2431	2210	1037
80°	2237	2035	898
85°	2022	1863	730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	3.6
10°-20°	416.5	9.5
20°-30°	539.5	12.3
30°-40°	528.3	12.0
40°-50°	404.4	9.2
50°-60°	269.4	6.1
60°-70°	147.0	3.3
70°-80°	61.3	1.4
80°-90°	17.3	0.4
90°-100°	147.7	3.4
100°-110°	357.0	8.1
110°-120°	380.7	8.7
120°-130°	308.4	7.0
130°-140°	238.7	5.4
140°-150°	182.1	4.1
150°-160°	131.8	3.0
160°-170°	81.2	1.8
170°-180°	27.5	0.6
0°-30°	1116.1	25.4
0°-40°	1644.3	37.4
0°-60°	2318.2	52.7
0°-90°	2543.8	57.8
90°-120°	885.4	20.1
90°-150°	1614.6	36.7
90°-180°	1855.0	42.2
0°-180°	4398.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1717	1700	1711	1715	1721	160
15°	1452	1447	1486	1526	1553	406
25°	1110	1113	1170	1222	1275	510
35°	784	788	841	898	961	488
45°	470	479	511	550	600	367
55°	270	282	298	309	335	245
65°	136	147	160	140	127	141
75°	68	68	62	43	29	73
85°	19	19	18	11	7	21
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°	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1750.0	1734.4	1738.3	1738.2	1733.4
5°	1717.4	1700.1	1711.2	1715.2	1721.2
7.5°	1653.6	1640.6	1660.8	1675.8	1687.9
10°	1604.0	1592.8	1618.5	1640.4	1656.1
12.5°	1546.4	1537.0	1568.9	1598.2	1618.7
15°	1452.3	1447.1	1486.0	1526.5	1552.7
17.5°	1351.7	1349.1	1393.8	1441.0	1474.5
20°	1283.0	1282.3	1331.3	1380.4	1419.4
22.5°	1213.8	1215.4	1267.0	1318.1	1362.4
25°	1109.9	1112.9	1170.4	1221.5	1275.4
27.5°	1013.9	1015.2	1074.7	1128.5	1186.1
30°	948.3	952.0	1010.3	1066.1	1126.0
32.5°	882.7	887.1	944.2	1001.8	1062.9
35°	784.4	788.1	841.1	897.7	961.3
37.5°	683.0	688.1	735.0	788.6	851.2
40°	617.4	624.9	666.4	716.8	778.3
42.5°	554.3	563.6	602.1	649.9	705.3
45°	470.3	479.3	510.9	549.6	599.8
47.5°	398.0	408.3	432.6	465.9	508.8
50°	357.0	366.7	389.1	413.8	454.2
52.5°	320.8	330.5	350.5	369.5	404.0
55°	270.4	281.6	298.0	309.3	334.7
57.5°	229.0	239.8	252.8	257.9	273.3
60°	201.5	213.4	225.2	224.6	232.9
62.5°	176.3	186.5	198.2	190.1	190.6
65°	135.6	146.8	160.1	139.9	127.2
67.5°	109.5	111.9	125.6	97.6	82.4
70°	97.3	97.3	101.1	75.5	62.8
72.5°	85.6	85.6	82.1	61.4	48.1
75°	68.2	68.2	62.0	42.6	29.1
77.5°	52.5	51.9	47.5	31.8	21.1
80°	42.1	42.1	38.3	25.1	16.9
82.5°	32.9	32.9	29.7	19.6	12.6
85°	19.1	19.1	17.6	11.4	6.9
87.5°	6.7	6.7	6.1	3.7	3.1
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)