

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: P519010

Luminaire Tested: **SQ4-WB-025U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519010  
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-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

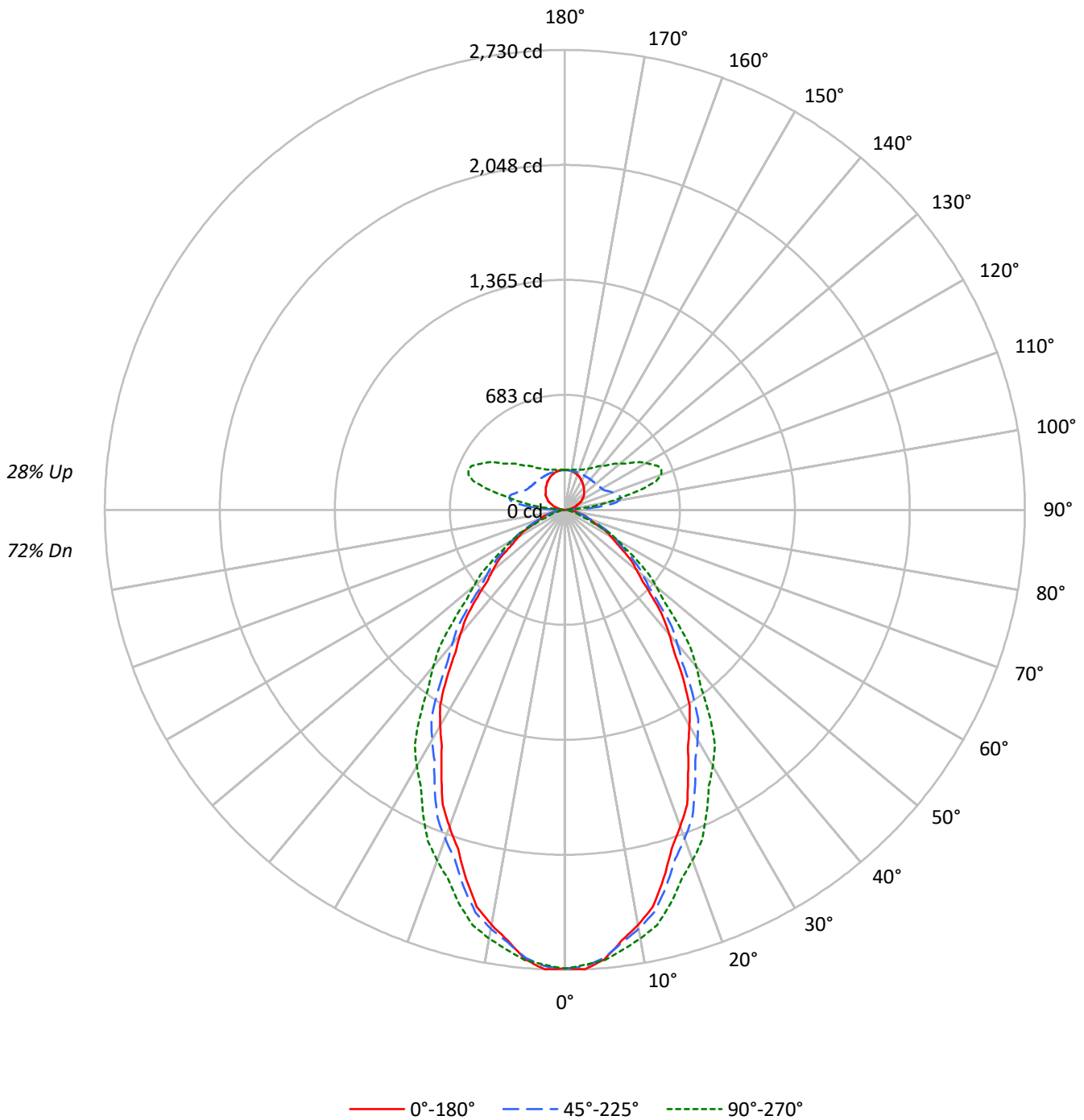
Lumens per Lamp: N/A  
Luminaire Lumens: 5506.8 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

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

	0°	45°	90°
0°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8395	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2900	3241	3352
65°	2309	2726	2166
70°	2047	2127	1322
75°	1895	1725	809
80°	1745	1586	699
85°	1583	1456	572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.8	4.5
10°-20°	649.7	11.8
20°-30°	841.6	15.3
30°-40°	824.1	15.0
40°-50°	630.8	11.5
50°-60°	420.3	7.6
60°-70°	229.4	4.2
70°-80°	95.6	1.7
80°-90°	28.3	0.5
90°-100°	115.6	2.1
100°-110°	303.9	5.5
110°-120°	315.1	5.7
120°-130°	252.8	4.6
130°-140°	198.3	3.6
140°-150°	152.2	2.8
150°-160°	109.6	2.0
160°-170°	67.1	1.2
170°-180°	22.7	0.4
0°-30°	1741.0	31.6
0°-40°	2565.1	46.6
0°-60°	3616.3	65.7
0°-90°	3969.5	72.1
90°-120°	734.6	13.3
90°-150°	1337.9	24.3
90°-180°	1537.0	27.9
0°-180°	5506.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2679	2652	2670	2676	2685	249
15°	2266	2257	2318	2381	2422	633
25°	1732	1736	1826	1905	1990	796
35°	1224	1230	1312	1400	1500	761
45°	734	748	797	857	936	572
55°	422	439	465	482	522	382
65°	212	229	250	218	198	220
75°	106	106	97	66	45	114
85°	30	30	28	18	11	33
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2729.9	2705.6	2711.8	2711.6	2704.1
5°	2679.0	2652.2	2669.5	2675.7	2685.0
7.5°	2579.6	2559.3	2590.9	2614.2	2633.2
10°	2502.2	2484.7	2524.9	2558.9	2583.4
12.5°	2412.3	2397.6	2447.5	2493.1	2525.1
15°	2265.6	2257.4	2318.2	2381.2	2422.1
17.5°	2108.6	2104.6	2174.3	2247.9	2300.2
20°	2001.5	2000.3	2076.8	2153.5	2214.2
22.5°	1893.5	1896.1	1976.4	2056.1	2125.3
25°	1731.5	1736.1	1825.9	1905.4	1989.6
27.5°	1581.6	1583.7	1676.5	1760.5	1850.2
30°	1479.3	1485.2	1576.1	1663.1	1756.6
32.5°	1377.0	1383.8	1472.9	1562.8	1658.1
35°	1223.6	1229.5	1312.0	1400.3	1499.6
37.5°	1065.4	1073.3	1146.7	1230.1	1327.8
40°	963.1	974.8	1039.6	1118.2	1214.1
42.5°	864.7	879.1	939.2	1013.8	1100.3
45°	733.7	747.7	797.0	857.4	935.6
47.5°	620.9	637.0	674.9	726.8	793.7
50°	556.8	572.0	607.0	645.5	708.6
52.5°	500.4	515.6	546.8	576.5	630.2
55°	421.8	439.3	464.8	482.5	522.2
57.5°	357.3	374.1	394.3	402.3	426.4
60°	314.3	333.0	351.3	350.4	363.3
62.5°	275.1	291.0	309.2	296.6	297.3
65°	211.5	229.0	249.7	218.2	198.4
67.5°	170.9	174.6	196.0	152.2	128.6
70°	151.8	151.8	157.7	117.8	98.0
72.5°	133.6	133.6	128.1	95.8	75.0
75°	106.3	106.3	96.8	66.4	45.4
77.5°	82.0	81.0	74.1	49.6	33.0
80°	65.7	65.7	59.7	39.1	26.3
82.5°	51.4	51.4	46.4	30.6	19.6
85°	29.9	29.9	27.5	17.8	10.8
87.5°	10.8	11.4	12.0	6.9	6.0
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)