

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: P518338

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518338  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-025U-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

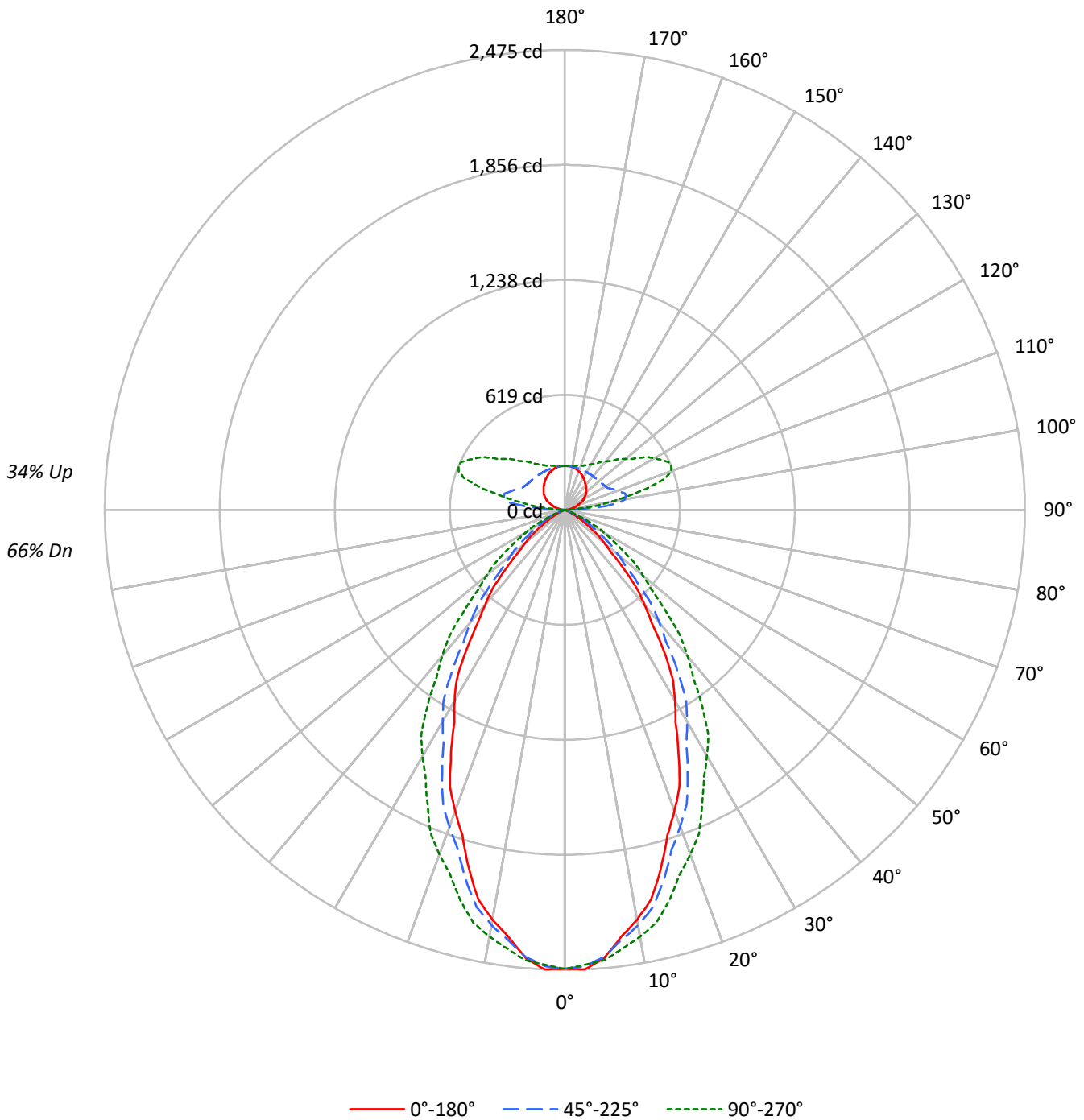
Lumens per Lamp: N/A  
Luminaire Lumens: 4484.7 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	104	100	97	94	98	95	92	89	84	82	80	75	73	72	66	65	64	60
2	96	90	85	81	91	86	81	77	77	73	71	69	66	64	61	59	58	54
3	90	82	75	71	84	78	72	68	70	66	62	63	60	57	56	54	52	49
4	83	74	67	62	79	71	65	60	64	59	56	58	54	51	52	49	47	44
5	78	67	60	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40
6	72	62	55	49	68	59	53	48	54	49	45	49	45	42	45	42	39	37
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34
8	63	52	45	41	60	50	44	39	46	41	37	43	38	35	39	36	33	31
9	60	48	42	37	57	47	40	36	43	38	34	40	35	32	37	33	31	29
10	56	45	38	34	53	43	37	33	40	35	32	37	33	30	34	31	28	27

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

	0°	45°	90°
0°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10925
15°	9535	9838	10386
20°	8464	8904	9684
25°	7371	7955	8897
30°	6314	7007	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2908	3601	4973
50°	1981	2684	3944
55°	1288	1942	3066
60°	739	1367	2216
65°	195	835	1122
70°	97	258	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	5.0
10°-20°	576.4	12.9
20°-30°	721.6	16.1
30°-40°	666.5	14.9
40°-50°	447.9	10.0
50°-60°	231.3	5.2
60°-70°	72.5	1.6
70°-80°	4.6	0.1
80°-90°	1.4	0.0
90°-100°	115.6	2.6
100°-110°	303.9	6.8
110°-120°	315.1	7.0
120°-130°	252.8	5.6
130°-140°	198.3	4.4
140°-150°	152.2	3.4
150°-160°	109.6	2.4
160°-170°	67.1	1.5
170°-180°	22.7	0.5
0°-30°	1523.4	34.0
0°-40°	2189.9	48.8
0°-60°	2869.0	64.0
0°-90°	2947.4	65.7
90°-120°	734.6	16.4
90°-150°	1337.9	29.8
90°-180°	1537.0	34.3
0°-180°	4484.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2421	2396	2415	2423	2433	224
15°	1997	1990	2060	2129	2175	556
25°	1448	1460	1563	1670	1748	664
35°	930	953	1056	1180	1288	576
45°	446	472	552	660	762	350
55°	160	187	241	310	381	149
65°	18	34	76	92	103	30
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	4	12	6	6	1
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°	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2475.4	2452.1	2458.2	2458.1	2451.6
5°	2420.7	2396.2	2414.7	2423.3	2432.7
7.5°	2318.4	2299.3	2334.9	2361.7	2381.1
10°	2239.1	2222.8	2269.0	2305.4	2332.3
12.5°	2147.3	2134.7	2190.6	2240.6	2275.0
15°	1996.6	1989.5	2059.9	2129.0	2174.6
17.5°	1835.0	1834.8	1915.1	2000.9	2055.8
20°	1724.1	1727.6	1813.8	1908.4	1972.7
22.5°	1613.3	1621.4	1713.4	1812.1	1885.7
25°	1448.1	1459.8	1562.8	1669.8	1748.0
27.5°	1289.5	1306.5	1414.9	1526.1	1621.4
30°	1185.3	1205.1	1315.5	1432.4	1530.6
32.5°	1083.0	1106.6	1214.2	1337.9	1437.9
35°	929.6	952.9	1056.2	1180.5	1288.0
37.5°	771.1	794.0	894.9	1017.3	1133.4
40°	667.9	693.6	789.8	908.4	1026.4
42.5°	574.2	599.9	690.4	806.9	918.3
45°	445.7	472.5	552.0	659.5	762.3
47.5°	339.1	368.3	438.0	535.3	629.0
50°	276.0	305.2	374.0	459.7	549.6
52.5°	225.3	253.6	315.7	396.4	478.9
55°	160.1	187.0	241.4	309.9	381.2
57.5°	110.6	133.8	182.6	239.8	295.6
60°	80.1	102.3	148.2	194.6	240.2
62.5°	53.3	73.6	118.5	154.1	184.7
65°	17.9	34.3	76.5	92.2	102.8
67.5°	9.1	10.9	40.1	42.4	45.9
70°	7.2	7.2	19.1	20.4	23.9
72.5°	5.3	5.3	7.6	9.8	10.5
75°	2.4	2.4	1.2	0.0	0.0
77.5°	1.2	1.2	1.0	0.0	0.0
80°	1.2	1.2	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.9	2.4	1.2	1.2
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)