

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: P519013

Luminaire Tested: **SQ4-WB-025U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519013  
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-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

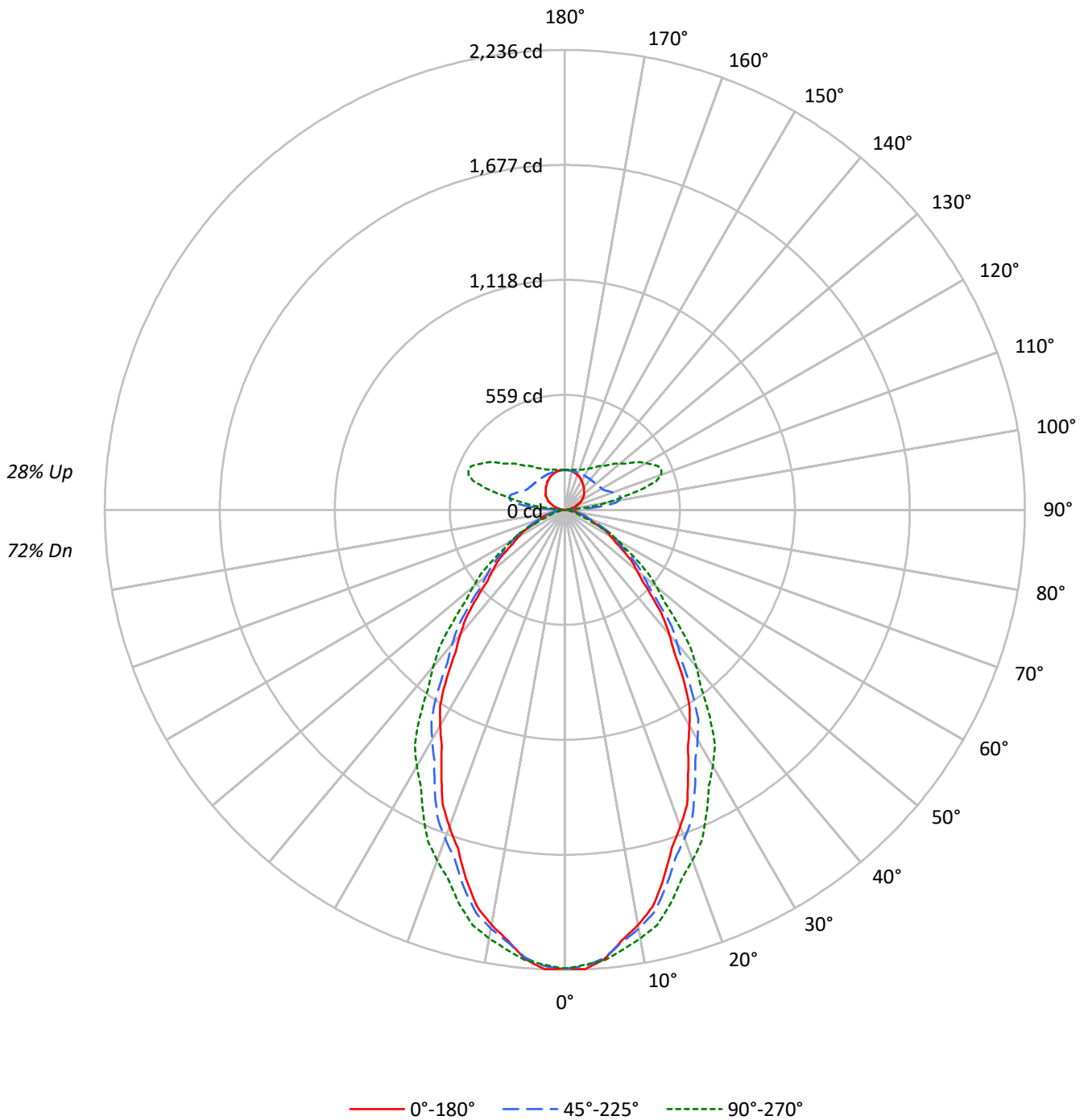
Lumens per Lamp: N/A  
Luminaire Lumens: 4509.8 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.6  
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°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12914	13214
15°	11815	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7525	8068	9221
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4585
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1442
75°	2070	1885	884
80°	1906	1732	762
85°	1729	1588	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	4.5
10°-20°	532.1	11.8
20°-30°	689.2	15.3
30°-40°	674.9	15.0
40°-50°	516.6	11.5
50°-60°	344.2	7.6
60°-70°	187.8	4.2
70°-80°	78.3	1.7
80°-90°	23.2	0.5
90°-100°	94.7	2.1
100°-110°	248.9	5.5
110°-120°	258.1	5.7
120°-130°	207.0	4.6
130°-140°	162.4	3.6
140°-150°	124.6	2.8
150°-160°	89.8	2.0
160°-170°	54.9	1.2
170°-180°	18.6	0.4
0°-30°	1425.8	31.6
0°-40°	2100.7	46.6
0°-60°	2961.5	65.7
0°-90°	3250.8	72.1
90°-120°	601.6	13.3
90°-150°	1095.7	24.3
90°-180°	1259.0	27.9
0°-180°	4509.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2194	2172	2186	2191	2199	204
15°	1855	1849	1898	1950	1984	518
25°	1418	1422	1495	1560	1629	652
35°	1002	1007	1074	1147	1228	623
45°	601	612	653	702	766	469
55°	345	360	381	395	428	313
65°	173	188	204	179	162	180
75°	87	87	79	54	37	93
85°	24	24	22	14	9	27
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2230.2	2230.2	2230.2	2230.2	2230.2
2.5°	2235.6	2215.7	2220.8	2220.6	2214.5
5°	2194.0	2171.9	2186.1	2191.2	2198.8
7.5°	2112.5	2095.9	2121.7	2140.9	2156.4
10°	2049.1	2034.8	2067.7	2095.6	2115.7
12.5°	1975.5	1963.5	2004.3	2041.7	2067.9
15°	1855.4	1848.7	1898.4	1950.1	1983.6
17.5°	1726.8	1723.5	1780.6	1840.9	1883.7
20°	1639.1	1638.1	1700.8	1763.5	1813.3
22.5°	1550.6	1552.7	1618.6	1683.8	1740.5
25°	1417.9	1421.8	1495.3	1560.4	1629.3
27.5°	1295.2	1297.0	1372.9	1441.7	1515.2
30°	1211.5	1216.3	1290.7	1362.0	1438.5
32.5°	1127.7	1133.3	1206.2	1279.8	1357.9
35°	1002.1	1006.8	1074.5	1146.8	1228.1
37.5°	872.5	879.0	939.0	1007.4	1087.4
40°	788.7	798.3	851.4	915.8	994.2
42.5°	708.1	720.0	769.2	830.3	901.1
45°	600.8	612.3	652.7	702.1	766.2
47.5°	508.5	521.7	552.7	595.2	650.0
50°	456.0	468.5	497.1	528.6	580.3
52.5°	409.8	422.3	447.8	472.1	516.1
55°	345.4	359.8	380.7	395.1	427.6
57.5°	292.6	306.4	322.9	329.4	349.2
60°	257.4	272.7	287.7	287.0	297.5
62.5°	225.3	238.3	253.3	242.9	243.5
65°	173.2	187.6	204.5	178.7	162.4
67.5°	139.9	143.0	160.5	124.6	105.3
70°	124.3	124.3	129.2	96.5	80.2
72.5°	109.4	109.4	104.9	78.5	61.5
75°	87.1	87.1	79.3	54.4	37.2
77.5°	67.1	66.4	60.7	40.6	27.0
80°	53.8	53.8	48.9	32.1	21.5
82.5°	42.1	42.1	38.0	25.0	16.0
85°	24.5	24.5	22.5	14.5	8.8
87.5°	8.9	9.3	9.8	5.7	4.9
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)