

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: P519018

Luminaire Tested: **SQ4-WB-025U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519018  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

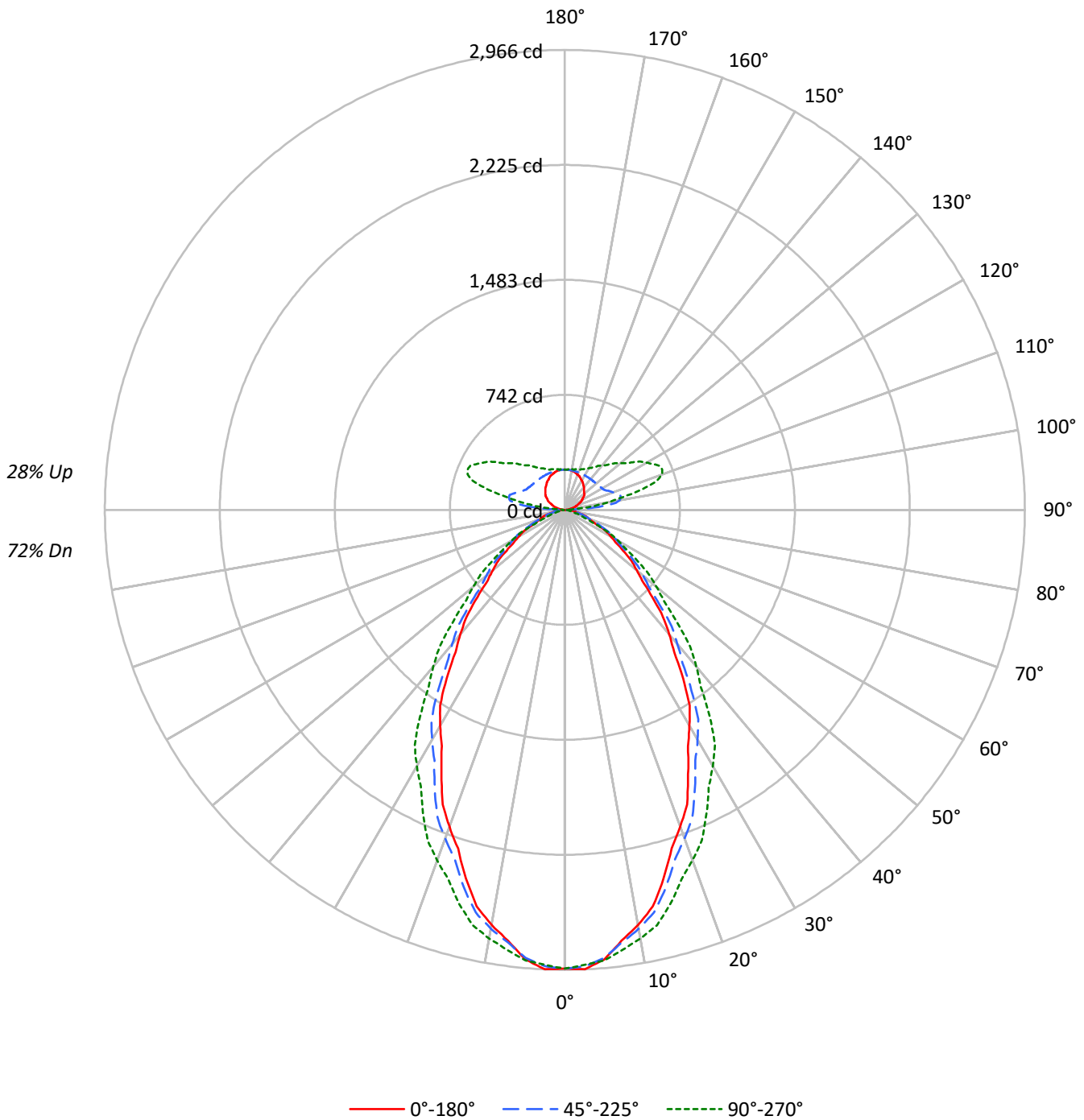
Lumens per Lamp: N/A  
Luminaire Lumens: 5999.3 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	104	100	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	67	65	64	61	60	56
3	89	81	74	69	85	77	71	66	70	65	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	39	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	38	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°	13648	13648	13648
5°	13477	13429	13507
10°	12733	12849	13147
15°	11755	12027	12567
20°	10674	11076	11808
25°	9574	10097	11002
30°	8561	9120	10165
35°	7486	8027	9175
40°	6301	6801	7942
45°	5200	5649	6631
50°	4341	4733	5525
55°	3685	4062	4563
60°	3150	3522	3641
65°	2508	2961	2352
70°	2224	2312	1435
75°	2059	1873	879
80°	1897	1724	760
85°	1720	1583	619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	4.5
10°-20°	705.8	11.8
20°-30°	914.2	15.2
30°-40°	895.3	14.9
40°-50°	685.3	11.4
50°-60°	456.6	7.6
60°-70°	249.2	4.2
70°-80°	103.8	1.7
80°-90°	30.8	0.5
90°-100°	126.8	2.1
100°-110°	333.5	5.6
110°-120°	345.8	5.8
120°-130°	277.3	4.6
130°-140°	217.6	3.6
140°-150°	167.0	2.8
150°-160°	120.3	2.0
160°-170°	73.6	1.2
170°-180°	24.9	0.4
0°-30°	1891.4	31.5
0°-40°	2786.7	46.5
0°-60°	3928.6	65.5
0°-90°	4312.4	71.9
90°-120°	806.1	13.4
90°-150°	1468.1	24.5
90°-180°	1687.0	28.1
0°-180°	5999.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2910	2881	2900	2907	2917	271
15°	2461	2452	2518	2587	2631	687
25°	1881	1886	1984	2070	2161	865
35°	1329	1336	1425	1521	1629	826
45°	797	812	866	931	1016	622
55°	458	477	505	524	567	415
65°	230	249	271	237	216	239
75°	116	116	105	72	49	123
85°	32	32	30	19	12	35
90°	2	5	13	7	7	3
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2965.7	2939.3	2946.0	2945.8	2937.7
5°	2910.4	2881.2	2900.0	2906.8	2916.9
7.5°	2802.4	2780.3	2814.6	2840.0	2860.6
10°	2718.3	2699.3	2743.0	2779.9	2806.6
12.5°	2620.7	2604.7	2658.8	2708.4	2743.2
15°	2461.3	2452.4	2518.4	2586.9	2631.3
17.5°	2290.7	2286.4	2362.1	2442.0	2498.9
20°	2174.4	2173.1	2256.2	2339.4	2405.4
22.5°	2057.0	2059.8	2147.1	2233.7	2308.9
25°	1881.0	1886.1	1983.6	2070.0	2161.4
27.5°	1718.2	1720.5	1821.3	1912.6	2010.0
30°	1607.1	1613.4	1712.2	1806.7	1908.3
32.5°	1496.0	1503.3	1600.1	1697.7	1801.3
35°	1329.3	1335.6	1425.4	1521.3	1629.2
37.5°	1157.4	1166.0	1245.7	1336.4	1442.5
40°	1046.3	1059.0	1129.4	1214.8	1318.9
42.5°	939.3	955.1	1020.3	1101.4	1195.3
45°	797.1	812.3	865.9	931.4	1016.4
47.5°	674.5	692.0	733.2	789.6	862.2
50°	604.9	621.4	659.5	701.3	769.8
52.5°	543.7	560.2	594.0	626.2	684.6
55°	458.2	477.3	505.0	524.1	567.3
57.5°	388.1	406.4	428.4	437.0	463.2
60°	341.4	361.7	381.7	380.7	394.6
62.5°	298.8	316.1	336.0	322.2	323.0
65°	229.8	248.8	271.3	237.1	215.5
67.5°	185.6	189.7	212.9	165.3	139.7
70°	164.9	164.9	171.4	128.0	106.4
72.5°	145.1	145.1	139.2	104.1	81.5
75°	115.5	115.5	105.1	72.2	49.3
77.5°	89.1	88.0	80.5	53.9	35.8
80°	71.4	71.4	64.9	42.5	28.6
82.5°	55.8	55.8	50.4	33.2	21.3
85°	32.5	32.5	29.9	19.3	11.7
87.5°	11.8	12.4	13.1	7.5	6.5
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)