

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: P519306

Luminaire Tested: **SQ4-WB-0U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519306  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

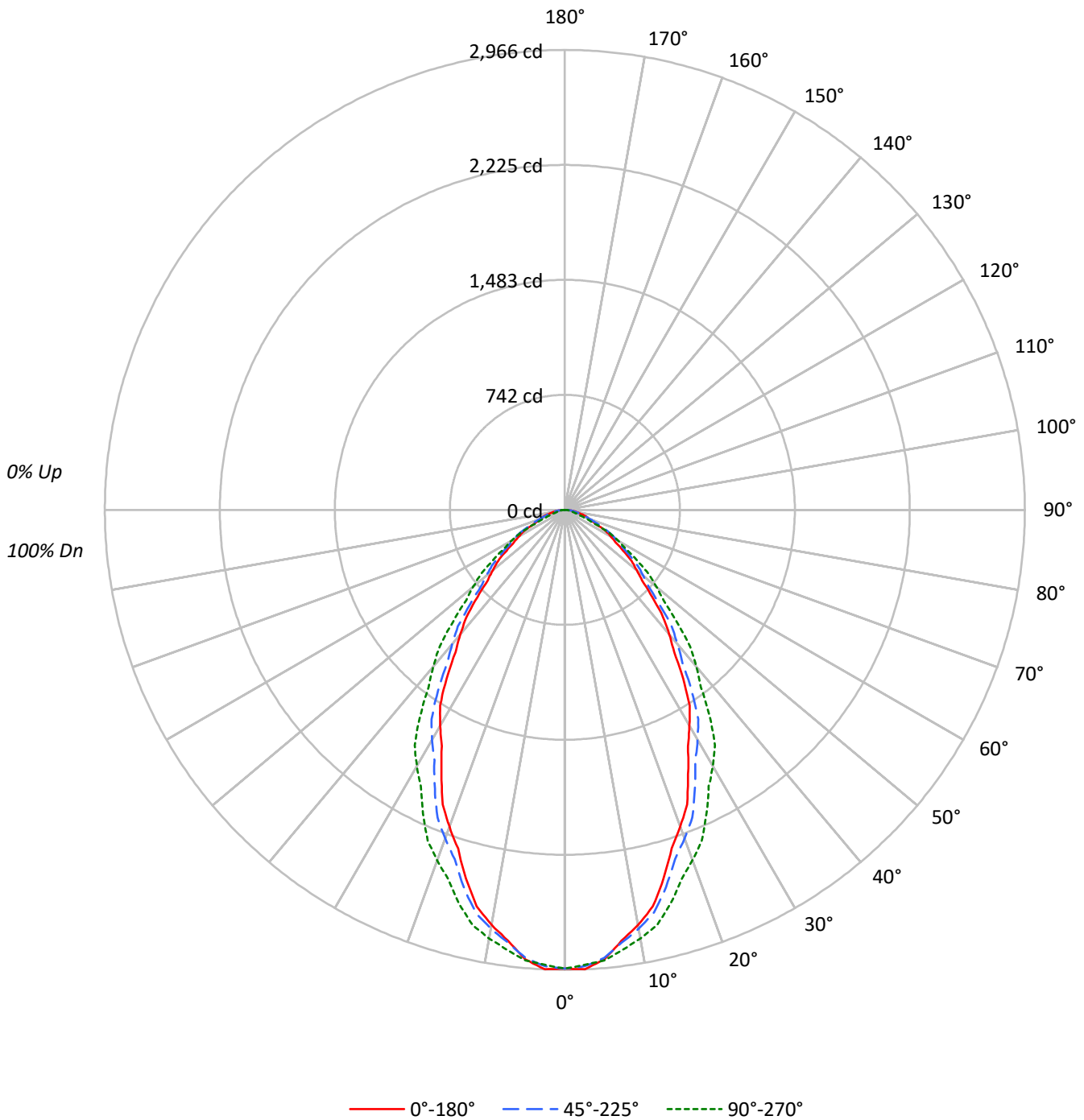
Lumens per Lamp: N/A  
Luminaire Lumens: 4311.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.4  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

**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	6.3
10°-20°	705.8	16.4
20°-30°	914.2	21.2
30°-40°	895.3	20.8
40°-50°	685.3	15.9
50°-60°	456.6	10.6
60°-70°	249.2	5.8
70°-80°	103.8	2.4
80°-90°	29.4	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1891.4	43.9
0°-40°	2786.7	64.6
0°-60°	3928.6	91.1
0°-90°	4311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.0	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	37
90°	0	0	0	0	0	



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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°	11.4	11.4	10.4	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)