

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: P519209

Luminaire Tested: **SQ4-WB-075U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519209  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

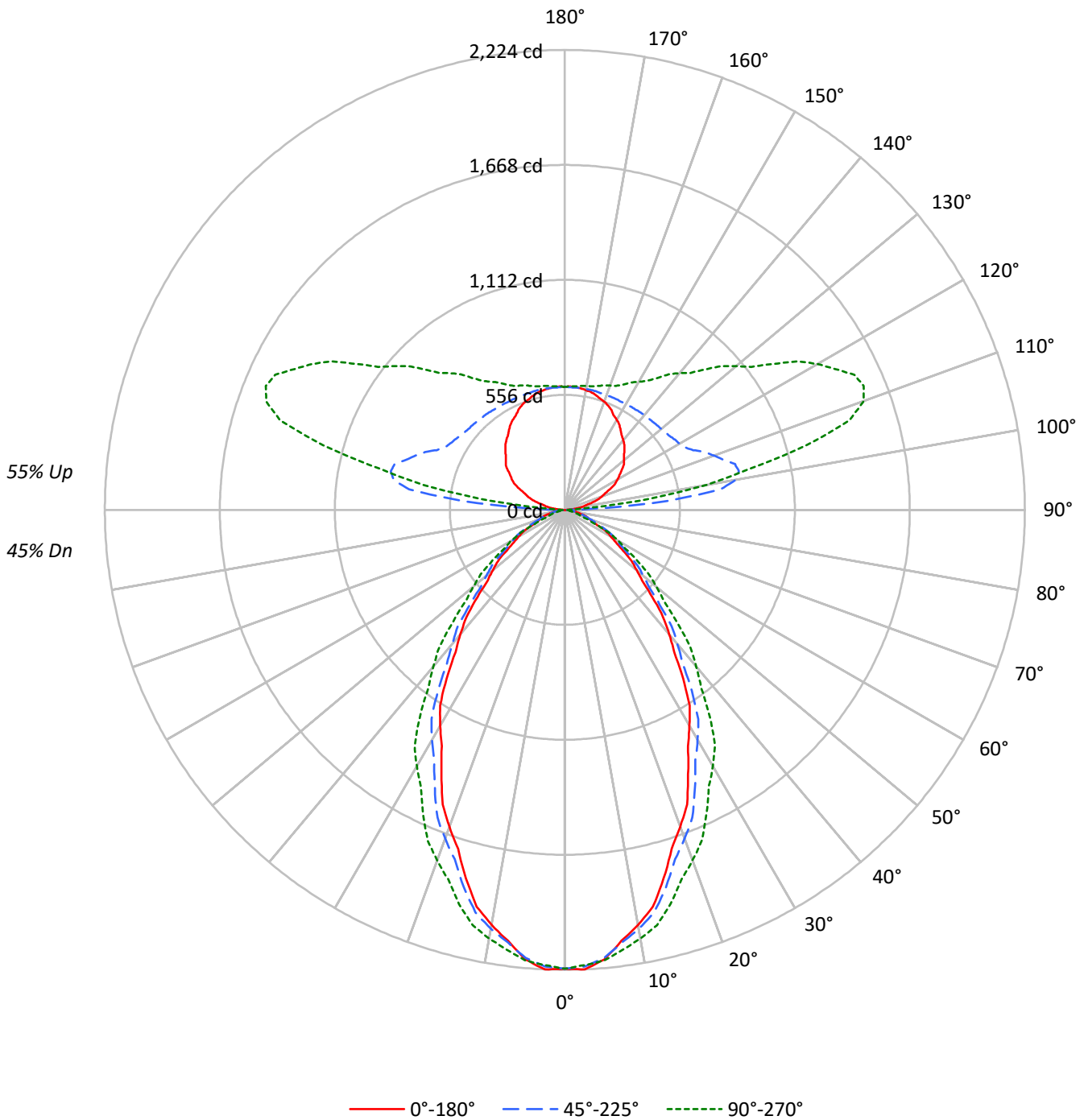
Lumens per Lamp: N/A  
Luminaire Lumens: 7116.9 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68  
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

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

	0°	45°	90°
0°	13647	13647	13647
5°	13477	13429	13508
10°	12733	12849	13147
15°	11754	12027	12567
20°	10674	11076	11809
25°	9574	10097	11001
30°	8560	9121	10165
35°	7486	8027	9175
40°	6301	6801	7943
45°	5200	5649	6631
50°	4341	4733	5524
55°	3686	4061	4563
60°	3150	3521	3641
65°	2508	2962	2352
70°	2223	2311	1435
75°	2060	1875	879
80°	1895	1725	758
85°	1715	1581	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.5	2.9
10°-20°	529.4	7.4
20°-30°	685.7	9.6
30°-40°	671.5	9.4
40°-50°	513.9	7.2
50°-60°	342.5	4.8
60°-70°	186.9	2.6
70°-80°	77.9	1.1
80°-90°	23.6	0.3
90°-100°	281.1	3.9
100°-110°	773.3	10.9
110°-120°	798.1	11.2
120°-130°	639.5	9.0
130°-140°	502.3	7.1
140°-150°	384.9	5.4
150°-160°	276.7	3.9
160°-170°	169.2	2.4
170°-180°	57.0	0.8
0°-30°	1418.6	19.9
0°-40°	2090.0	29.4
0°-60°	2946.4	41.4
0°-90°	3234.8	45.5
90°-120°	1852.5	26.0
90°-150°	3379.1	47.5
90°-180°	3882.0	54.5
0°-180°	7116.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2183	2161	2175	2180	2188	203
15°	1846	1839	1889	1940	1974	515
25°	1411	1415	1488	1552	1621	649
35°	997	1002	1069	1141	1222	620
45°	598	609	649	698	762	466
55°	344	358	379	393	426	312
65°	172	187	204	178	162	179
75°	87	87	79	54	37	92
85°	24	24	22	14	9	26
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2218.8	2218.8	2218.8	2218.8	2218.8
2.5°	2224.3	2204.5	2209.5	2209.4	2203.3
5°	2182.8	2160.9	2175.0	2180.1	2187.7
7.5°	2101.8	2085.2	2111.0	2130.0	2145.4
10°	2038.7	2024.4	2057.2	2084.9	2104.9
12.5°	1965.5	1953.5	1994.1	2031.3	2057.4
15°	1845.9	1839.3	1888.8	1940.2	1973.5
17.5°	1718.0	1714.8	1771.6	1831.5	1874.2
20°	1630.8	1629.8	1692.1	1754.6	1804.1
22.5°	1542.8	1544.9	1610.3	1675.3	1731.6
25°	1410.7	1414.6	1487.7	1552.5	1621.0
27.5°	1288.7	1290.4	1366.0	1434.4	1507.5
30°	1205.3	1210.1	1284.2	1355.0	1431.2
32.5°	1122.0	1127.5	1200.1	1273.3	1351.0
35°	997.0	1001.7	1069.0	1141.0	1221.9
37.5°	868.1	874.5	934.3	1002.3	1081.9
40°	784.7	794.2	847.0	911.1	989.2
42.5°	704.5	716.3	765.3	826.0	896.5
45°	597.8	609.2	649.4	698.5	762.3
47.5°	505.9	519.0	549.9	592.2	646.7
50°	453.7	466.1	494.6	525.9	577.3
52.5°	407.7	420.1	445.5	469.7	513.5
55°	343.7	358.0	378.7	393.1	425.5
57.5°	291.1	304.8	321.3	327.8	347.4
60°	256.1	271.3	286.2	285.5	296.0
62.5°	224.1	237.1	252.0	241.7	242.2
65°	172.3	186.6	203.5	177.8	161.6
67.5°	139.2	142.3	159.7	124.0	104.8
70°	123.6	123.6	128.5	96.0	79.8
72.5°	108.8	108.8	104.4	78.1	61.1
75°	86.7	86.7	78.9	54.1	37.0
77.5°	66.8	66.0	60.4	40.4	26.9
80°	53.5	53.5	48.7	31.9	21.4
82.5°	41.9	41.9	37.8	24.9	16.0
85°	24.3	24.3	22.4	14.5	8.8
87.5°	8.8	9.6	9.6	6.9	6.2
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)