

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: P519203

Luminaire Tested: **SQ4-WB-075U-075D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519203  
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-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

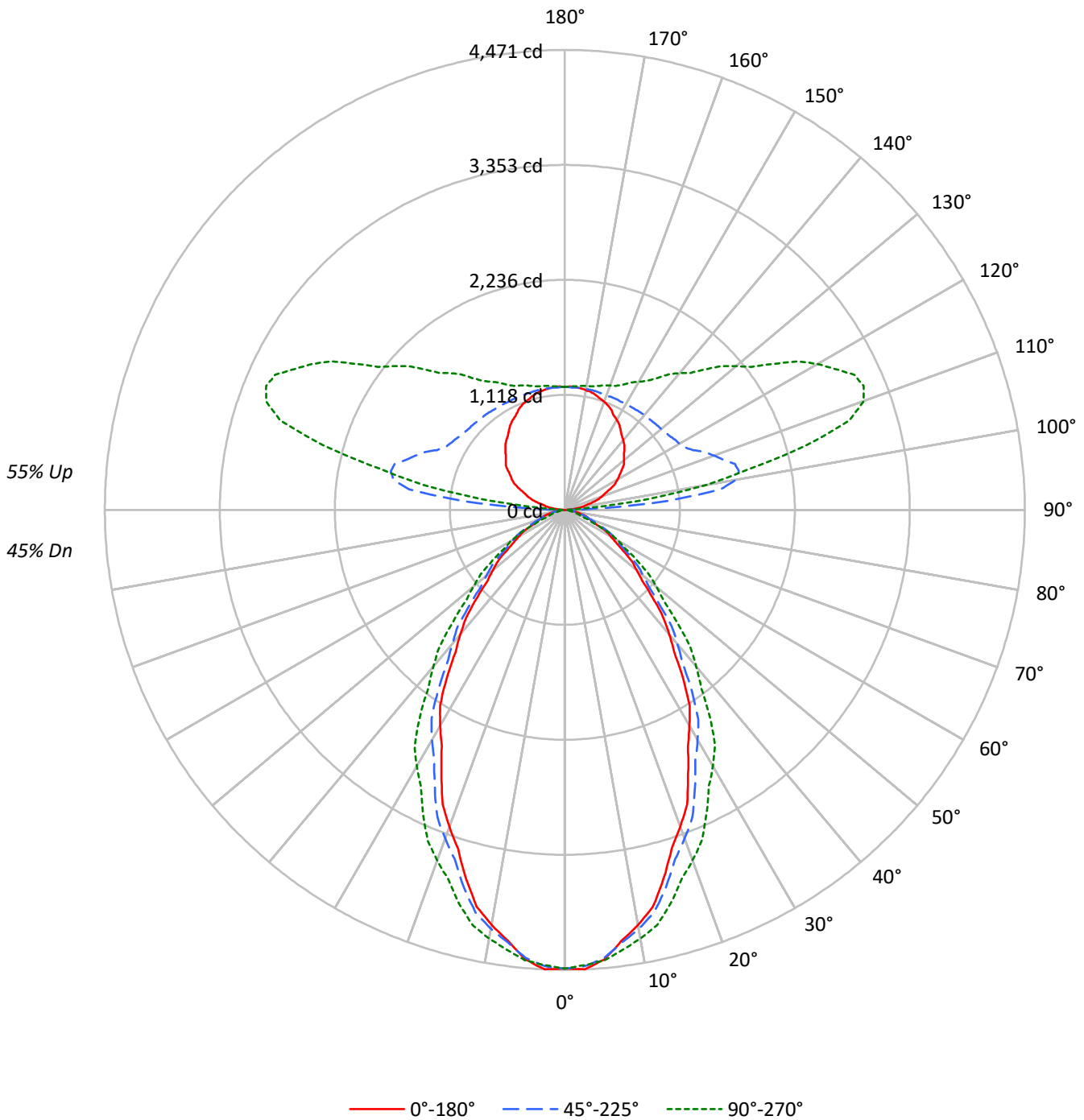
Lumens per Lamp: N/A  
Luminaire Lumens: 14306.4 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.4  
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	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°	13717	13717	13717
5°	13546	13498	13576
10°	12798	12914	13214
15°	11814	12089	12631
20°	10729	11132	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9221
40°	6333	6836	7983
45°	5227	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1443
75°	2070	1883	884
80°	1906	1734	763
85°	1725	1588	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.1	2.9
10°-20°	1064.1	7.4
20°-30°	1378.4	9.6
30°-40°	1349.8	9.4
40°-50°	1033.1	7.2
50°-60°	688.4	4.8
60°-70°	375.7	2.6
70°-80°	156.5	1.1
80°-90°	47.4	0.3
90°-100°	565.0	3.9
100°-110°	1554.4	10.9
110°-120°	1604.4	11.2
120°-130°	1285.5	9.0
130°-140°	1009.6	7.1
140°-150°	773.7	5.4
150°-160°	556.3	3.9
160°-170°	340.2	2.4
170°-180°	114.7	0.8
0°-30°	2851.6	19.9
0°-40°	4201.4	29.4
0°-60°	5923.0	41.4
0°-90°	6502.5	45.5
90°-120°	3723.8	26.0
90°-150°	6792.7	47.5
90°-180°	7804.0	54.5
0°-180°	14306.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4460	4460	4460	4460	4460	
5°	4388	4344	4372	4382	4398	408
15°	3711	3697	3797	3900	3967	1036
25°	2836	2844	2990	3121	3259	1304
35°	2004	2014	2149	2294	2456	1246
45°	1202	1225	1305	1404	1532	937
55°	691	720	761	790	855	626
65°	346	375	409	357	325	360
75°	174	174	158	109	74	186
85°	49	49	45	29	18	53
90°	2	10	18	23	23	8
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

TEST NUMBER: P519203

CATALOG NUMBER: SQ4-WB-075U-075D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4460.3	4460.3	4460.3	4460.3	4460.3
2.5°	4471.3	4431.5	4441.5	4441.3	4429.0
5°	4387.9	4343.9	4372.3	4382.4	4397.7
7.5°	4225.1	4191.8	4243.5	4281.8	4312.8
10°	4098.3	4069.6	4135.4	4191.2	4231.3
12.5°	3951.1	3927.0	4008.6	4083.4	4135.8
15°	3710.7	3697.3	3796.9	3900.1	3967.1
17.5°	3453.6	3447.1	3561.2	3681.8	3767.5
20°	3278.2	3276.3	3401.5	3527.1	3626.6
22.5°	3101.3	3105.5	3237.1	3367.7	3481.0
25°	2835.9	2843.6	2990.5	3120.9	3258.6
27.5°	2590.5	2593.9	2745.9	2883.5	3030.4
30°	2422.9	2432.5	2581.5	2723.9	2877.0
32.5°	2255.4	2266.5	2412.4	2559.6	2715.7
35°	2004.1	2013.7	2148.9	2293.6	2456.2
37.5°	1745.0	1758.0	1878.1	2014.8	2174.8
40°	1577.5	1596.6	1702.7	1831.5	1988.5
42.5°	1416.2	1439.9	1538.3	1660.5	1802.1
45°	1201.7	1224.6	1305.4	1404.2	1532.4
47.5°	1016.9	1043.3	1105.4	1190.5	1299.9
50°	912.0	936.9	994.2	1057.2	1160.6
52.5°	819.7	844.5	895.6	944.2	1032.2
55°	690.9	719.6	761.3	790.2	855.3
57.5°	585.2	612.7	645.9	658.9	698.3
60°	514.7	545.3	575.4	573.9	595.0
62.5°	450.5	476.6	506.5	485.8	486.9
65°	346.4	375.1	409.0	357.4	324.9
67.5°	279.9	286.0	321.0	249.2	210.6
70°	248.6	248.6	258.3	193.0	160.5
72.5°	218.8	218.8	209.8	157.0	122.9
75°	174.2	174.2	158.5	108.8	74.4
77.5°	134.3	132.7	121.3	81.2	54.0
80°	107.6	107.6	97.9	64.1	43.1
82.5°	84.2	84.2	75.9	50.1	32.1
85°	48.9	48.9	45.0	29.1	17.6
87.5°	17.7	19.2	19.2	13.9	12.4
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



TEST NUMBER: P519203

CATALOG NUMBER: SQ4-WB-075U-075D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)