

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: P520067

Luminaire Tested: **SQ4-F-075U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520067  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-075U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

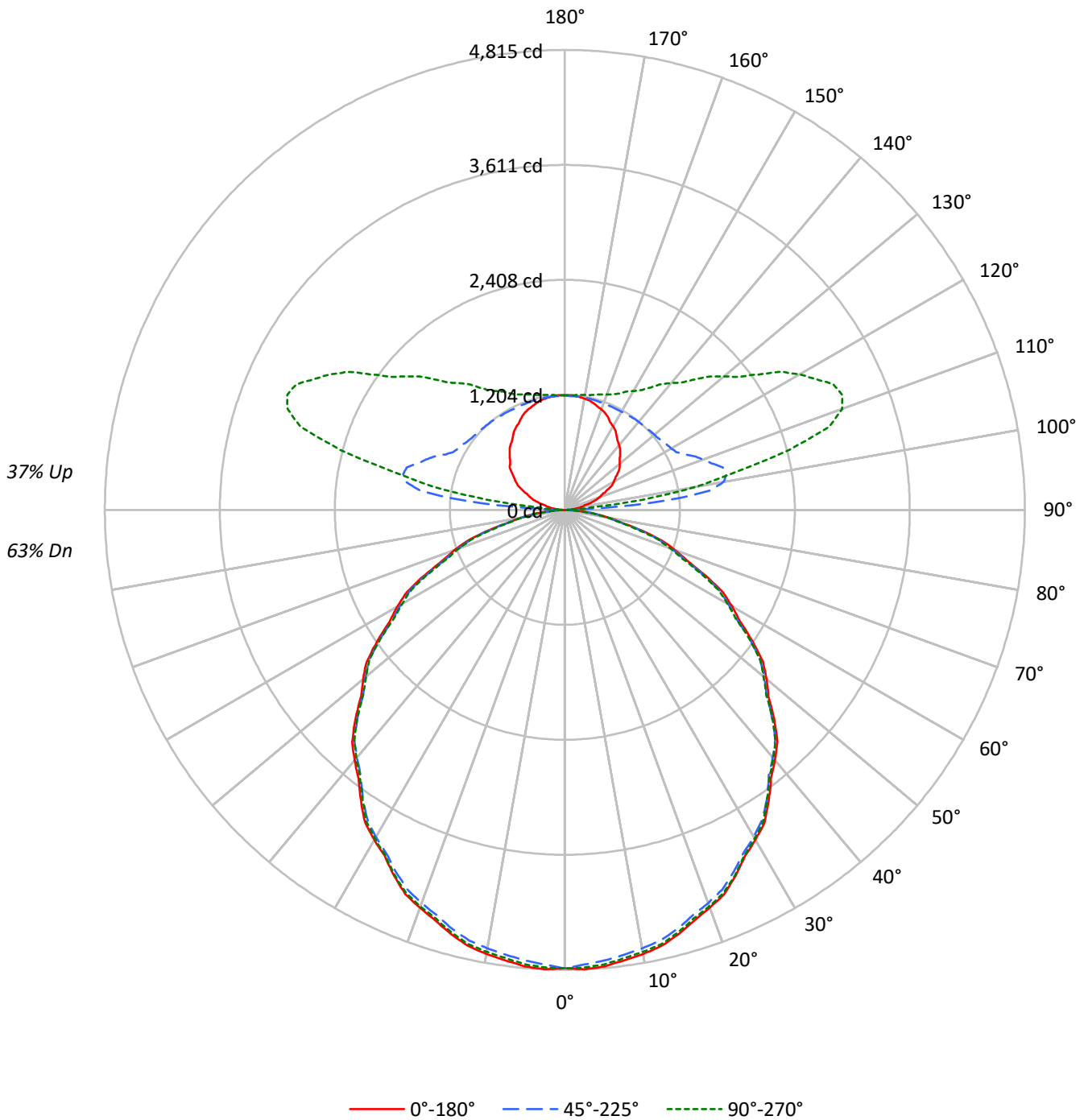
Lumens per Lamp: N/A  
Luminaire Lumens: 20903.7 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 194.1  
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

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

	0°	45°	90°
0°	14763	14763	14763
5°	14811	14624	14746
10°	14743	14562	14677
15°	14644	14468	14586
20°	14509	14345	14457
25°	14344	14192	14308
30°	14167	14045	14119
35°	13966	13846	13856
40°	13735	13587	13629
45°	13478	13329	13352
50°	13184	13032	12994
55°	12848	12664	12636
60°	12431	12155	12090
65°	11785	11535	11382
70°	10975	10690	10547
75°	9764	9543	9261
80°	7954	7720	7674
85°	4753	5406	5406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.9	2.2
10°-20°	1290.0	6.2
20°-30°	1938.0	9.3
30°-40°	2312.4	11.1
40°-50°	2370.3	11.3
50°-60°	2112.7	10.1
60°-70°	1572.7	7.5
70°-80°	852.1	4.1
80°-90°	198.7	1.0
90°-100°	565.0	2.7
100°-110°	1554.4	7.4
110°-120°	1604.4	7.7
120°-130°	1285.5	6.1
130°-140°	1009.6	4.8
140°-150°	773.8	3.7
150°-160°	556.3	2.7
160°-170°	340.2	1.6
170°-180°	114.7	0.5
0°-30°	3680.9	17.6
0°-40°	5993.3	28.7
0°-60°	10476.4	50.1
0°-90°	13099.8	62.7
90°-120°	3723.8	17.8
90°-150°	6792.7	32.5
90°-180°	7804.0	37.3
0°-180°	20903.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4800	4800	4800	4800	4800	
5°	4798	4790	4737	4779	4777	455
15°	4600	4589	4544	4584	4581	1297
25°	4227	4219	4182	4206	4216	1947
35°	3720	3717	3688	3688	3691	2326
45°	3099	3091	3065	3060	3070	2388
55°	2396	2388	2362	2344	2357	2140
65°	1620	1609	1585	1574	1564	1604
75°	822	822	803	787	779	873
85°	135	153	153	156	153	186
90°	2	10	18	23	23	9
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4800.3	4800.3	4800.3	4800.3	4800.3
2.5°	4815.1	4806.9	4764.4	4800.2	4794.0
5°	4797.7	4790.0	4737.0	4779.1	4776.6
7.5°	4757.0	4747.2	4698.9	4738.4	4733.7
10°	4721.1	4713.4	4663.0	4702.5	4700.0
12.5°	4676.7	4669.0	4618.6	4658.2	4657.7
15°	4599.5	4589.2	4544.1	4583.6	4581.1
17.5°	4507.1	4495.3	4450.6	4481.9	4487.0
20°	4433.1	4425.4	4383.0	4412.1	4417.3
22.5°	4357.0	4347.2	4302.6	4336.0	4341.2
25°	4227.1	4219.3	4182.2	4206.2	4216.5
27.5°	4084.4	4084.4	4050.0	4067.1	4073.3
30°	3989.3	3989.3	3954.9	3965.8	3976.0
32.5°	3887.9	3879.5	3847.1	3855.8	3866.2
35°	3719.8	3717.3	3688.1	3688.2	3690.7
37.5°	3546.0	3538.7	3506.9	3509.3	3521.7
40°	3421.2	3416.1	3384.3	3384.5	3394.9
42.5°	3294.4	3289.3	3261.7	3257.5	3261.7
45°	3098.9	3091.2	3064.6	3059.6	3069.9
47.5°	2890.8	2892.9	2861.2	2854.0	2859.6
50°	2755.6	2755.6	2723.8	2708.1	2715.9
52.5°	2613.9	2609.8	2578.0	2560.4	2578.5
55°	2396.3	2388.5	2361.9	2343.7	2356.6
57.5°	2173.3	2161.3	2134.7	2114.7	2122.0
60°	2021.1	2003.0	1976.2	1960.4	1965.6
62.5°	1862.5	1852.7	1823.9	1799.9	1811.3
65°	1619.5	1609.2	1585.1	1574.3	1564.1
67.5°	1381.2	1374.4	1347.4	1336.1	1329.4
70°	1220.6	1207.6	1188.9	1175.6	1173.0
72.5°	1064.2	1049.2	1030.3	1019.1	1012.4
75°	821.7	821.7	803.1	787.1	779.4
77.5°	590.8	592.8	577.5	572.1	568.6
80°	449.1	449.1	435.9	430.6	433.3
82.5°	313.9	320.1	315.4	308.0	304.4
85°	134.7	152.8	153.2	155.8	153.2
87.5°	23.8	39.8	43.9	40.5	36.5
90°	2.5	10.0	17.8	23.0	23.0
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	1524.7	1174.7	828.9
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.5	387.5	1732.6	2116.1	1827.9
105°	277.8	427.3	1712.8	2608.4	2434.0
107.5°	340.0	476.5	1615.4	2849.7	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	425.7	546.3	1468.5	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.4
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.8	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.7	2278.1	2687.4
125°	677.9	772.6	1246.3	2108.3	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.6
130°	749.3	841.6	1223.4	1882.4	2171.5
132.5°	777.9	870.0	1217.3	1808.3	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.3
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	980.2	1198.9	1516.7	1659.8
145°	945.5	1010.4	1192.8	1452.8	1564.9
147.5°	984.9	1040.6	1189.8	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	1238.9	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	1217.3	1215.2
175°	1197.9	1200.3	1192.8	1208.1	1205.5
177.5°	1200.0	1200.0	1191.7	1204.0	1200.0
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)