

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: P519820

Luminaire Tested: **SQ4-F-025U-075D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519820  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-025U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

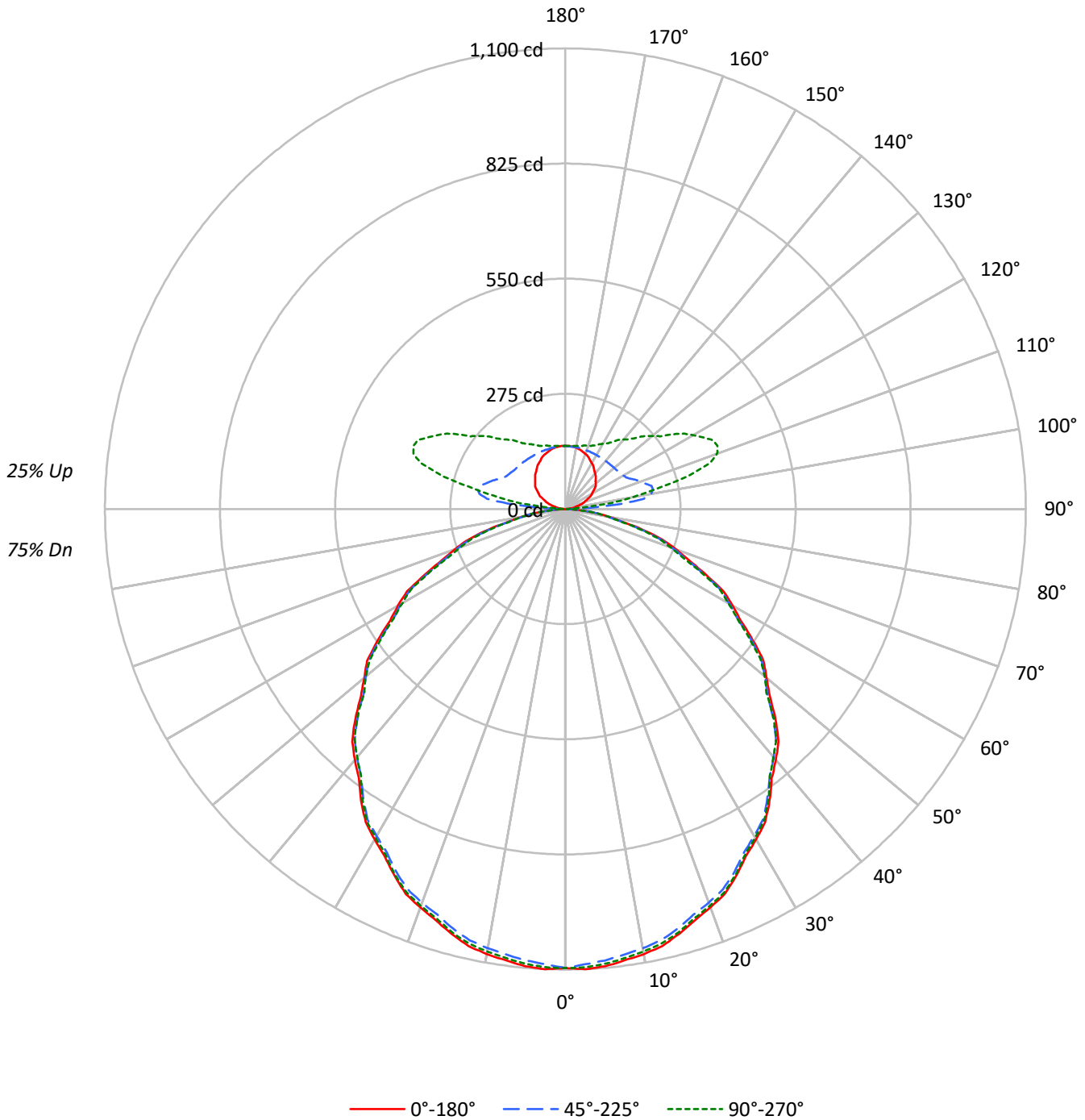
Lumens per Lamp: N/A  
Luminaire Lumens: 3969.4 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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

	0°	45°	90°
0°	10115	10115	10115
5°	10153	10026	10098
10°	10112	9982	10057
15°	10035	9912	9997
20°	9945	9827	9906
25°	9836	9734	9805
30°	9710	9604	9657
35°	9583	9482	9527
40°	9421	9326	9314
45°	9260	9143	9169
50°	9002	8931	8931
55°	8792	8683	8601
60°	8510	8364	8289
65°	8049	7898	7789
70°	7561	7375	7186
75°	6802	6556	6413
80°	5435	5334	5281
85°	3260	3684	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	2.6
10°-20°	294.6	7.4
20°-30°	442.6	11.2
30°-40°	528.1	13.3
40°-50°	541.6	13.6
50°-60°	482.6	12.2
60°-70°	359.8	9.1
70°-80°	195.1	4.9
80°-90°	45.6	1.1
90°-100°	73.4	1.8
100°-110°	192.9	4.9
110°-120°	200.0	5.0
120°-130°	160.4	4.0
130°-140°	125.9	3.2
140°-150°	96.6	2.4
150°-160°	69.6	1.8
160°-170°	42.6	1.1
170°-180°	14.4	0.4
0°-30°	840.7	21.2
0°-40°	1368.8	34.5
0°-60°	2393.1	60.3
0°-90°	2993.7	75.4
90°-120°	466.2	11.7
90°-150°	849.1	21.4
90°-180°	976.0	24.6
0°-180°	3969.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1096	1094	1082	1091	1090	104
15°	1051	1049	1038	1046	1047	296
25°	966	965	956	961	963	445
35°	851	849	842	842	846	532
45°	710	707	701	701	703	546
55°	547	546	540	535	535	488
65°	369	369	362	358	357	367
75°	191	187	184	181	180	200
85°	31	33	35	35	36	43
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1100.3	1098.0	1088.4	1096.3	1095.6
5°	1096.3	1094.4	1082.5	1091.3	1090.3
7.5°	1087.4	1085.2	1073.5	1082.5	1082.3
10°	1079.4	1076.6	1065.5	1074.5	1073.5
12.5°	1069.1	1066.2	1055.2	1064.2	1063.2
15°	1050.6	1048.7	1037.7	1045.7	1046.6
17.5°	1029.5	1025.9	1016.0	1023.8	1024.8
20°	1012.9	1009.9	1000.9	1007.9	1008.9
22.5°	995.4	992.4	983.5	990.4	991.3
25°	966.2	965.2	956.2	961.2	963.2
27.5°	934.6	931.8	924.6	928.4	930.3
30°	911.4	909.6	901.5	904.5	906.5
32.5°	887.6	886.4	879.3	880.7	883.4
35°	850.8	848.9	841.9	842.0	845.9
37.5°	810.1	807.9	802.1	801.1	802.7
40°	782.2	779.4	774.3	773.3	773.3
42.5°	753.6	751.5	744.8	743.2	745.4
45°	709.7	706.8	700.7	700.7	702.7
47.5°	662.2	661.0	654.0	650.9	651.6
50°	627.2	629.1	622.2	618.3	622.2
52.5°	596.9	595.8	589.6	585.7	587.2
55°	546.6	545.7	539.8	534.7	534.7
57.5°	496.2	493.7	487.4	483.8	486.6
60°	461.2	460.2	453.3	446.4	449.2
62.5°	426.2	424.4	417.4	412.9	415.1
65°	368.7	368.7	361.8	357.8	356.8
67.5°	318.4	313.8	309.9	305.2	303.8
70°	280.3	276.4	273.4	269.3	266.4
72.5°	243.0	240.6	236.0	231.9	231.4
75°	190.8	187.0	183.9	180.9	179.9
77.5°	135.8	135.0	132.2	130.6	131.2
80°	102.3	102.3	100.4	100.4	99.4
82.5°	72.1	72.9	72.5	71.0	70.8
85°	30.8	32.8	34.8	34.8	35.8
87.5°	5.8	10.0	10.3	9.5	9.5
90°	1.0	2.9	7.7	3.8	3.8
92.5°	4.0	19.5	43.2	19.1	12.3
95°	9.7	37.9	126.4	65.1	44.4
97.5°	16.8	41.7	189.2	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.9	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.3	323.7	302.1
107.5°	42.8	59.5	201.1	355.2	360.5
110°	48.3	63.4	191.1	363.3	386.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	393.0
115°	61.7	74.9	170.8	340.8	388.8
117.5°	69.7	81.7	163.3	316.6	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	79.0	90.2	157.8	284.1	335.2
125°	85.8	96.3	155.3	262.6	309.7
127.5°	91.5	102.1	153.2	245.2	285.0
130°	94.5	105.9	152.5	234.4	271.2
132.5°	97.7	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	211.9	240.3
137.5°	107.1	117.3	150.4	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.0	122.7	149.6	189.0	207.6
145°	118.7	126.3	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	174.0	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.8
157.5°	137.5	141.2	148.6	159.8	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.8	158.7
165°	144.7	146.6	148.6	154.5	156.3
167.5°	147.0	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.7	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)