

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: P563882

Luminaire Tested: **SQ4-PR1-025U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563882  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

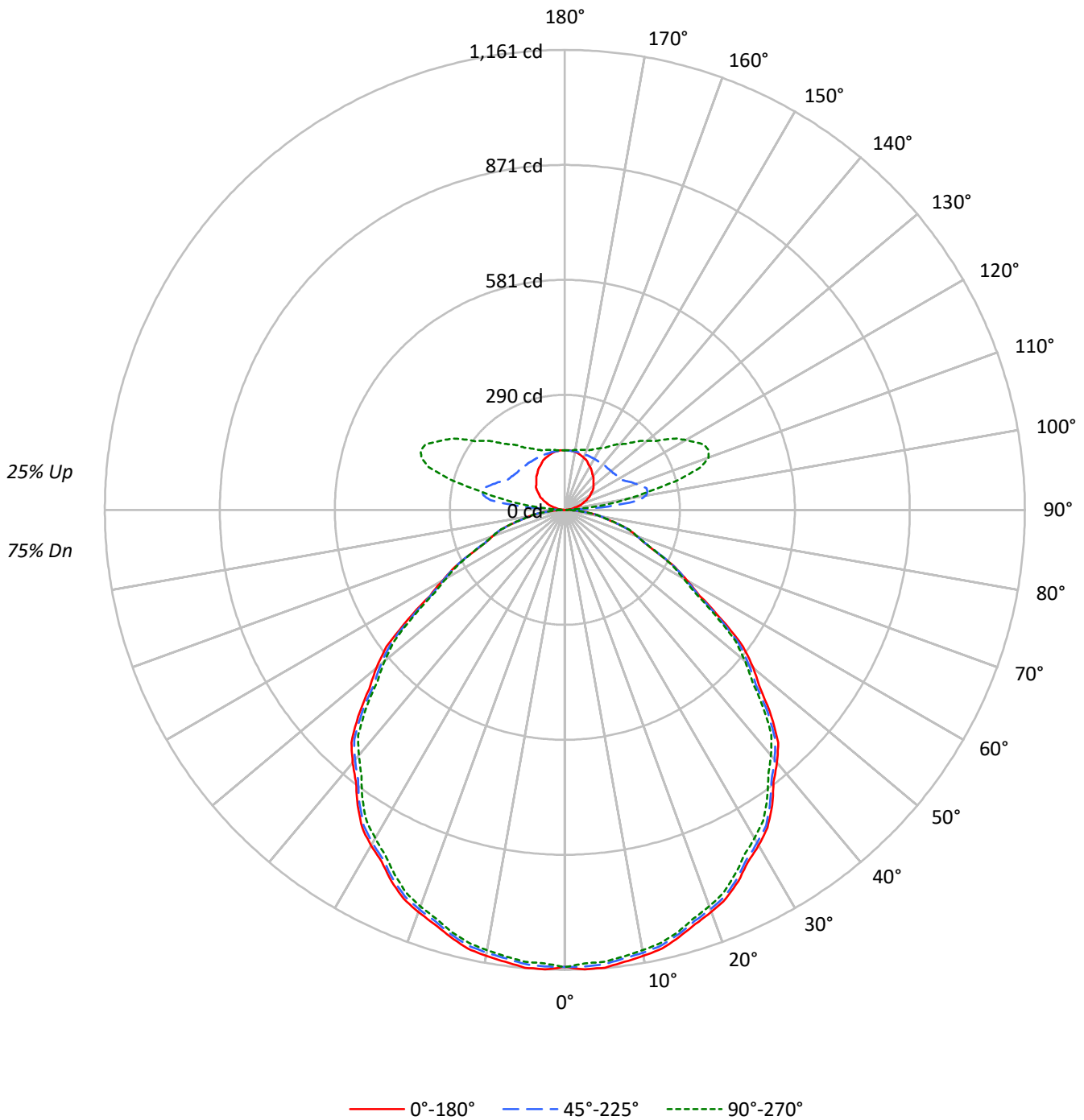
Lumens per Lamp: N/A  
Luminaire Lumens: 3861.3 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10604
10°	10709	10634	10578
15°	10662	10596	10538
20°	10608	10540	10461
25°	10533	10463	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10031	9924	9745
45°	9623	9454	9260
50°	8902	8688	8517
55°	7771	7594	7435
60°	6547	6493	6364
65°	5663	5685	5641
70°	5201	5228	5228
75°	4994	4994	5030
80°	4702	4755	4702
85°	3790	4213	4213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	2.8
10°-20°	312.2	8.1
20°-30°	470.9	12.2
30°-40°	561.1	14.5
40°-50°	553.2	14.3
50°-60°	422.8	10.9
60°-70°	261.6	6.8
70°-80°	148.6	3.8
80°-90°	46.0	1.2
90°-100°	73.4	1.9
100°-110°	192.9	5.0
110°-120°	200.0	5.2
120°-130°	160.4	4.2
130°-140°	125.9	3.3
140°-150°	96.6	2.5
150°-160°	69.6	1.8
160°-170°	42.6	1.1
170°-180°	14.4	0.4
0°-30°	892.3	23.1
0°-40°	1453.4	37.6
0°-60°	2429.4	62.9
0°-90°	2885.6	74.7
90°-120°	466.2	12.1
90°-150°	849.1	22.0
90°-180°	976.0	25.3
0°-180°	3861.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1160	1147	1151	1147	1145	110
15°	1116	1105	1109	1105	1103	315
25°	1035	1022	1028	1017	1016	476
35°	912	901	904	892	891	569
45°	738	728	725	712	710	565
55°	483	475	472	464	462	433
65°	259	258	260	258	258	263
75°	140	140	140	141	141	148
85°	36	38	40	40	40	42
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°	1154.0	1154.0	1154.0	1154.0	1154.0
2.5°	1161.1	1151.0	1154.0	1151.5	1146.0
5°	1160.0	1147.3	1151.0	1147.0	1145.0
7.5°	1151.0	1138.6	1142.3	1138.3	1137.1
10°	1143.1	1131.4	1135.1	1131.1	1129.1
12.5°	1134.3	1121.9	1126.4	1121.5	1119.6
15°	1116.2	1104.6	1109.3	1105.2	1103.3
17.5°	1096.3	1083.9	1088.6	1084.0	1081.4
20°	1080.4	1068.8	1073.5	1066.5	1065.5
22.5°	1062.9	1051.3	1056.0	1046.6	1046.4
25°	1034.7	1022.1	1027.8	1016.8	1015.8
27.5°	1001.1	989.5	994.2	983.0	981.8
30°	978.1	966.4	971.1	959.1	957.2
32.5°	951.8	940.9	944.9	932.9	931.7
35°	911.5	900.8	903.5	891.6	890.6
37.5°	865.5	855.8	857.4	844.2	843.3
40°	832.9	823.2	824.0	810.1	809.1
42.5°	797.2	787.4	786.6	772.7	771.7
45°	737.5	727.8	724.6	711.6	709.7
47.5°	669.5	659.8	653.8	643.3	641.9
50°	620.2	610.5	605.3	596.3	593.4
52.5°	567.0	557.2	552.8	544.6	541.7
55°	483.1	475.3	472.1	464.1	462.2
57.5°	403.3	398.1	397.2	389.4	388.6
60°	354.8	351.9	351.9	344.9	344.9
62.5°	313.5	311.4	312.9	308.3	307.5
65°	259.4	257.5	260.4	258.4	258.4
67.5°	216.7	216.7	218.5	217.7	217.7
70°	192.8	192.8	193.8	193.8	193.8
72.5°	171.4	170.6	173.1	173.1	172.4
75°	140.1	140.1	140.1	141.1	141.1
77.5°	109.1	109.3	110.1	109.9	109.1
80°	88.5	89.4	89.5	88.5	88.5
82.5°	67.8	68.8	68.8	68.6	67.8
85°	35.8	37.7	39.8	39.8	39.8
87.5°	10.5	14.0	17.4	16.7	15.9
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	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	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	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	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	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	152.6	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)