

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: P561949

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561949  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

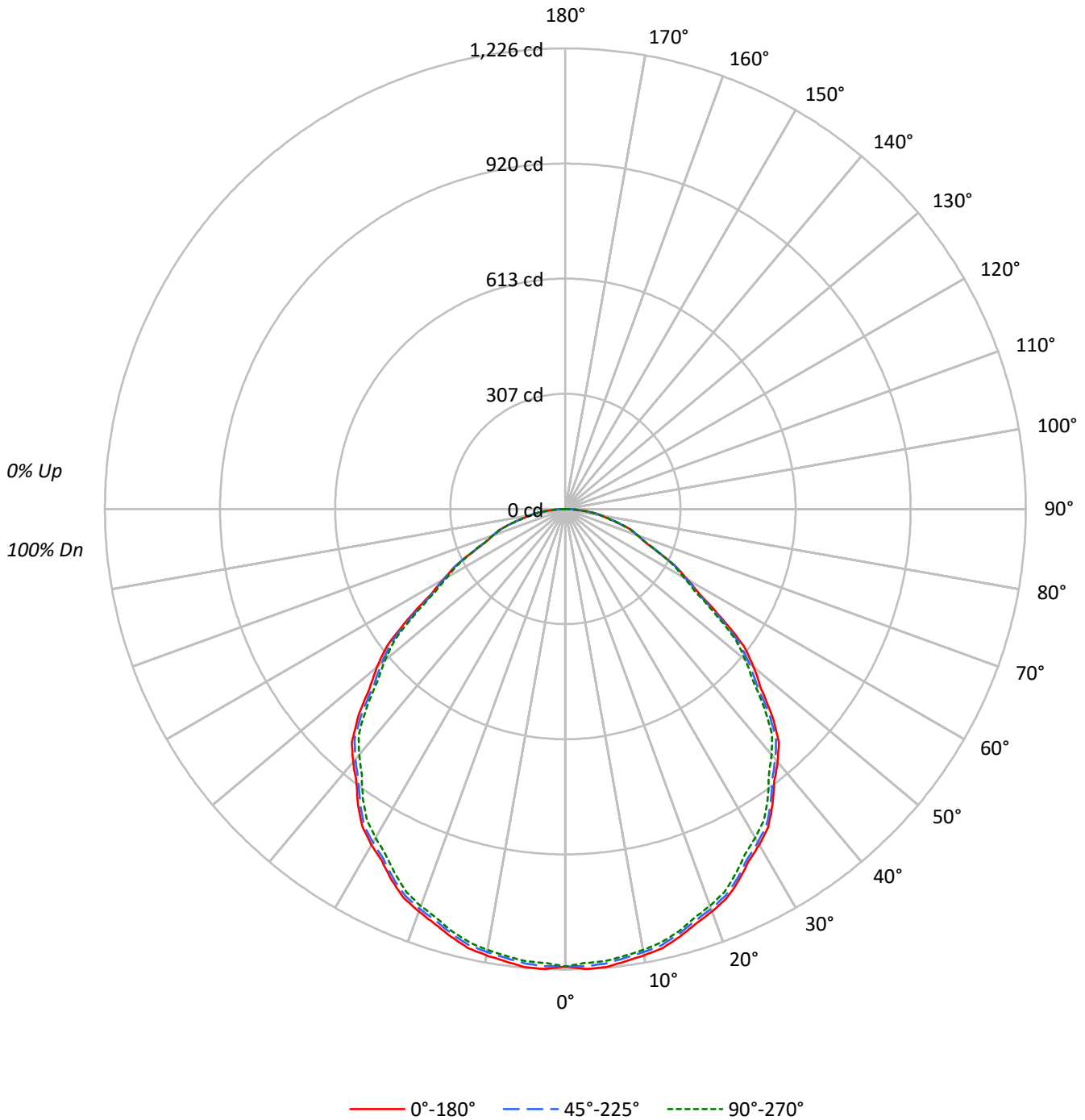
Lumens per Lamp: N/A  
Luminaire Lumens: 3044.9 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.9  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

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

	0°	45°	90°
0°	11238	11238	11238
5°	11339	11252	11193
10°	11303	11224	11165
15°	11253	11183	11123
20°	11197	11124	11042
25°	11118	11043	10915
30°	10998	10920	10763
35°	10835	10741	10587
40°	10589	10475	10286
45°	10156	9979	9774
50°	9396	9170	8990
55°	8202	8015	7846
60°	6910	6853	6717
65°	5977	6001	5956
70°	5490	5519	5519
75°	5272	5272	5311
80°	4962	5016	4962
85°	4001	4446	4446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.2	3.8
10°-20°	329.5	10.8
20°-30°	497.1	16.3
30°-40°	592.2	19.5
40°-50°	583.9	19.2
50°-60°	446.2	14.7
60°-70°	276.2	9.1
70°-80°	156.8	5.2
80°-90°	47.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	941.8	30.9
0°-40°	1534.0	50.4
0°-60°	2564.2	84.2
0°-90°	3044.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1211	1215	1211	1209	116
15°	1178	1166	1171	1167	1164	332
25°	1092	1079	1085	1073	1072	503
35°	962	951	954	941	940	600
45°	778	768	765	751	749	596
55°	510	502	498	490	488	457
65°	274	272	275	273	273	277
75°	148	148	148	149	149	156
85°	38	40	42	42	42	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1225.6	1214.9	1218.0	1215.4	1209.6
5°	1224.3	1211.0	1214.9	1210.6	1208.6
7.5°	1214.9	1201.7	1205.6	1201.4	1200.2
10°	1206.5	1194.2	1198.1	1193.8	1191.8
12.5°	1197.2	1184.1	1188.9	1183.8	1181.7
15°	1178.1	1165.8	1170.8	1166.6	1164.5
17.5°	1157.2	1144.0	1149.0	1144.1	1141.4
20°	1140.4	1128.1	1133.0	1125.7	1124.6
22.5°	1121.9	1109.6	1114.6	1104.7	1104.5
25°	1092.1	1078.8	1084.8	1073.2	1072.2
27.5°	1056.7	1044.4	1049.3	1037.5	1036.3
30°	1032.3	1020.0	1025.0	1012.3	1010.3
32.5°	1004.6	993.1	997.3	984.7	983.4
35°	962.0	950.7	953.6	941.0	940.0
37.5°	913.6	903.3	905.0	891.1	890.1
40°	879.2	868.9	869.7	855.0	854.0
42.5°	841.4	831.1	830.3	815.6	814.5
45°	778.4	768.2	764.8	751.1	749.1
47.5°	706.7	696.4	690.1	679.0	677.5
50°	654.6	644.4	638.9	629.4	626.3
52.5°	598.4	588.2	583.5	574.8	571.8
55°	509.9	501.7	498.3	489.9	487.8
57.5°	425.7	420.2	419.2	411.0	410.2
60°	374.5	371.5	371.4	364.0	364.0
62.5°	330.9	328.6	330.3	325.4	324.6
65°	273.8	271.8	274.9	272.8	272.8
67.5°	228.7	228.7	230.6	229.8	229.8
70°	203.5	203.5	204.6	204.6	204.6
72.5°	180.9	180.0	182.8	182.7	181.9
75°	147.9	147.9	147.9	149.0	149.0
77.5°	115.2	115.4	116.2	116.0	115.2
80°	93.4	94.4	94.4	93.4	93.4
82.5°	71.5	72.6	72.6	72.4	71.5
85°	37.8	39.8	42.0	42.0	42.0
87.5°	10.9	14.2	16.8	16.8	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)