

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: P564206

Luminaire Tested: **SQ4-PR1-0U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564206  
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-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

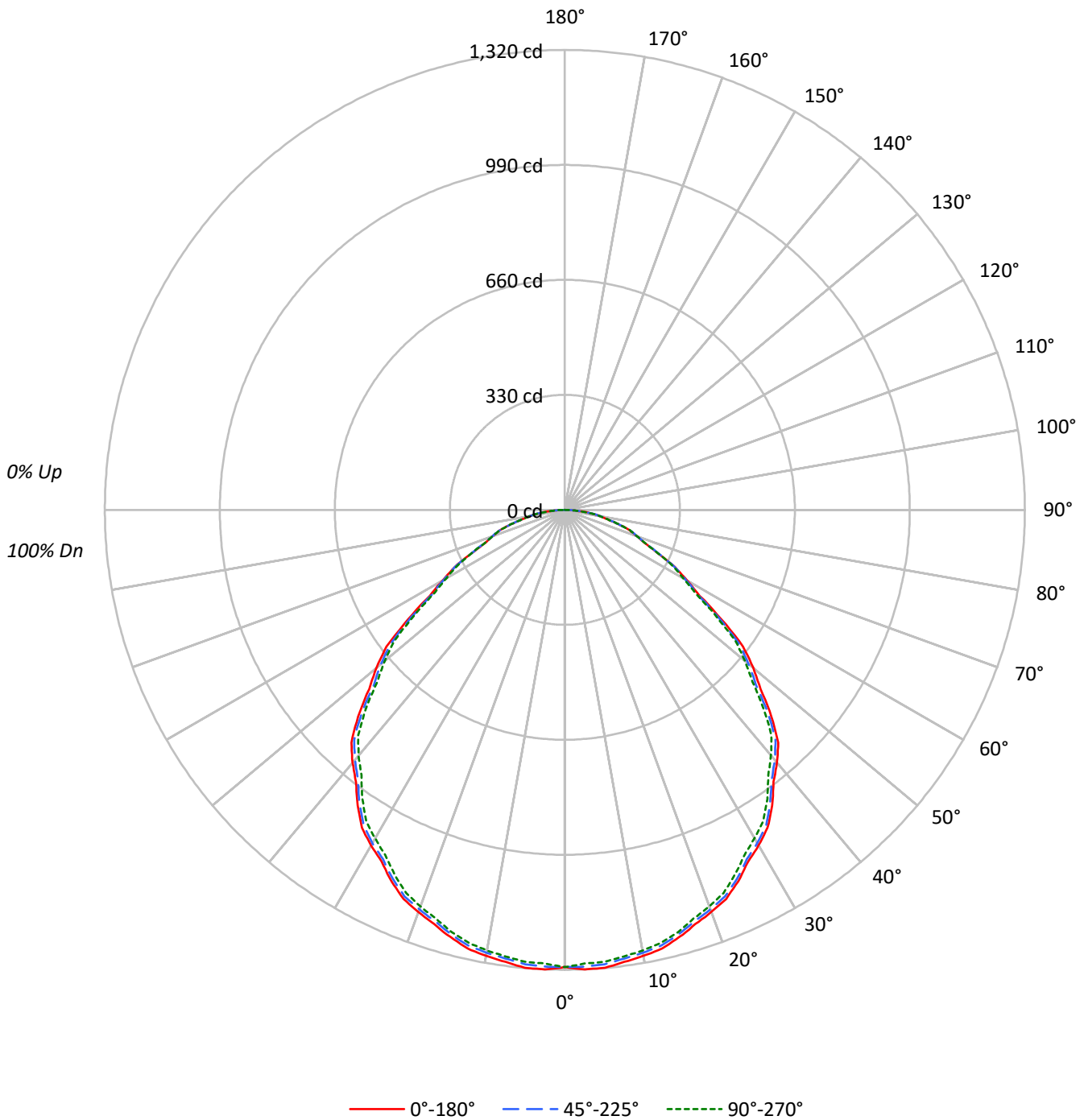
Lumens per Lamp: N/A  
Luminaire Lumens: 3280.6 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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	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°	12108	12108	12108
5°	12217	12122	12059
10°	12178	12093	12030
15°	12125	12048	11984
20°	12064	11986	11897
25°	11979	11898	11760
30°	11849	11765	11596
35°	11674	11573	11407
40°	11408	11285	11082
45°	10943	10751	10531
50°	10123	9881	9686
55°	8836	8636	8454
60°	7446	7383	7237
65°	6440	6464	6416
70°	5916	5945	5945
75°	5682	5682	5721
80°	5345	5403	5345
85°	4308	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.1	3.8
10°-20°	355.1	10.8
20°-30°	535.5	16.3
30°-40°	638.1	19.5
40°-50°	629.1	19.2
50°-60°	480.8	14.7
60°-70°	297.5	9.1
70°-80°	169.0	5.2
80°-90°	51.4	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°	1014.7	30.9
0°-40°	1652.8	50.4
0°-60°	2762.7	84.2
0°-90°	3280.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1319	1305	1309	1304	1302	125
15°	1269	1256	1261	1257	1255	358
25°	1177	1162	1169	1156	1155	542
35°	1036	1024	1028	1014	1013	647
45°	839	828	824	809	807	643
55°	549	540	537	528	526	492
65°	295	293	296	294	294	299
75°	159	159	159	160	160	168
85°	41	43	45	45	45	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1312.3	1312.3	1312.3	1312.3	1312.3
2.5°	1320.4	1309.0	1312.3	1309.5	1303.3
5°	1319.1	1304.7	1308.9	1304.3	1302.1
7.5°	1308.9	1294.8	1299.0	1294.4	1293.1
10°	1299.9	1286.6	1290.8	1286.3	1284.1
12.5°	1289.9	1275.8	1280.9	1275.4	1273.2
15°	1269.4	1256.1	1261.4	1256.9	1254.7
17.5°	1246.8	1232.6	1237.9	1232.7	1229.8
20°	1228.7	1215.4	1220.8	1212.8	1211.7
22.5°	1208.8	1195.5	1200.9	1190.2	1190.0
25°	1176.7	1162.3	1168.8	1156.3	1155.2
27.5°	1138.5	1125.2	1130.6	1117.9	1116.5
30°	1112.2	1099.0	1104.3	1090.7	1088.5
32.5°	1082.4	1070.0	1074.5	1060.9	1059.6
35°	1036.5	1024.4	1027.5	1013.9	1012.8
37.5°	984.3	973.2	975.0	960.1	959.0
40°	947.2	936.2	937.0	921.2	920.1
42.5°	906.5	895.5	894.5	878.7	877.6
45°	838.7	827.7	824.0	809.3	807.1
47.5°	761.4	750.3	743.5	731.5	730.0
50°	705.3	694.3	688.4	678.1	674.8
52.5°	644.7	633.7	628.7	619.3	616.0
55°	549.3	540.5	536.9	527.8	525.6
57.5°	458.7	452.7	451.7	442.8	442.0
60°	403.5	400.2	400.1	392.2	392.2
62.5°	356.5	354.1	355.8	350.6	349.7
65°	295.0	292.8	296.1	293.9	293.9
67.5°	246.4	246.4	248.4	247.5	247.5
70°	219.3	219.3	220.4	220.4	220.4
72.5°	194.9	194.0	196.9	196.9	196.0
75°	159.4	159.4	159.4	160.5	160.5
77.5°	124.1	124.3	125.2	125.0	124.1
80°	100.6	101.7	101.7	100.6	100.6
82.5°	77.1	78.2	78.2	78.0	77.1
85°	40.7	42.9	45.2	45.2	45.2
87.5°	11.8	15.3	18.1	18.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)