

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: P564110

Luminaire Tested: **SQ4-PR1-075U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564110  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

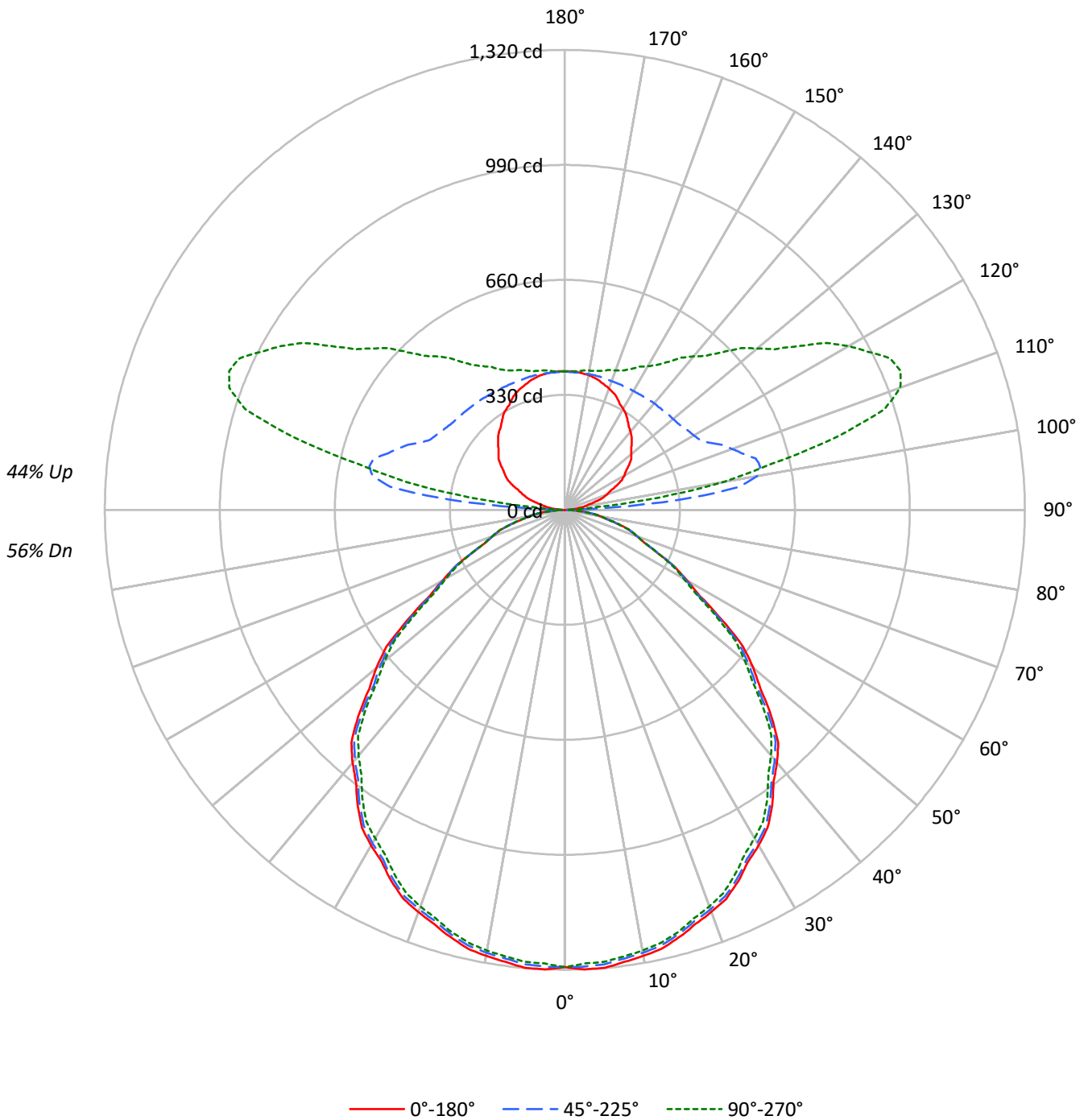
Lumens per Lamp: N/A  
Luminaire Lumens: 5869.7 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

**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	2.1
10°-20°	355.1	6.0
20°-30°	535.5	9.1
30°-40°	638.1	10.9
40°-50°	629.1	10.7
50°-60°	480.8	8.2
60°-70°	297.5	5.1
70°-80°	169.0	2.9
80°-90°	52.4	0.9
90°-100°	187.4	3.2
100°-110°	515.5	8.8
110°-120°	532.1	9.1
120°-130°	426.3	7.3
130°-140°	334.8	5.7
140°-150°	256.6	4.4
150°-160°	184.5	3.1
160°-170°	112.8	1.9
170°-180°	38.0	0.6
0°-30°	1014.7	17.3
0°-40°	1652.8	28.2
0°-60°	2762.7	47.1
0°-90°	3281.6	55.9
90°-120°	1235.0	21.0
90°-150°	2252.7	38.4
90°-180°	2588.0	44.1
0°-180°	5869.7	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	47
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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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°	11.9	16.0	19.3	19.6	18.7
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)