

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: P564302

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564302
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

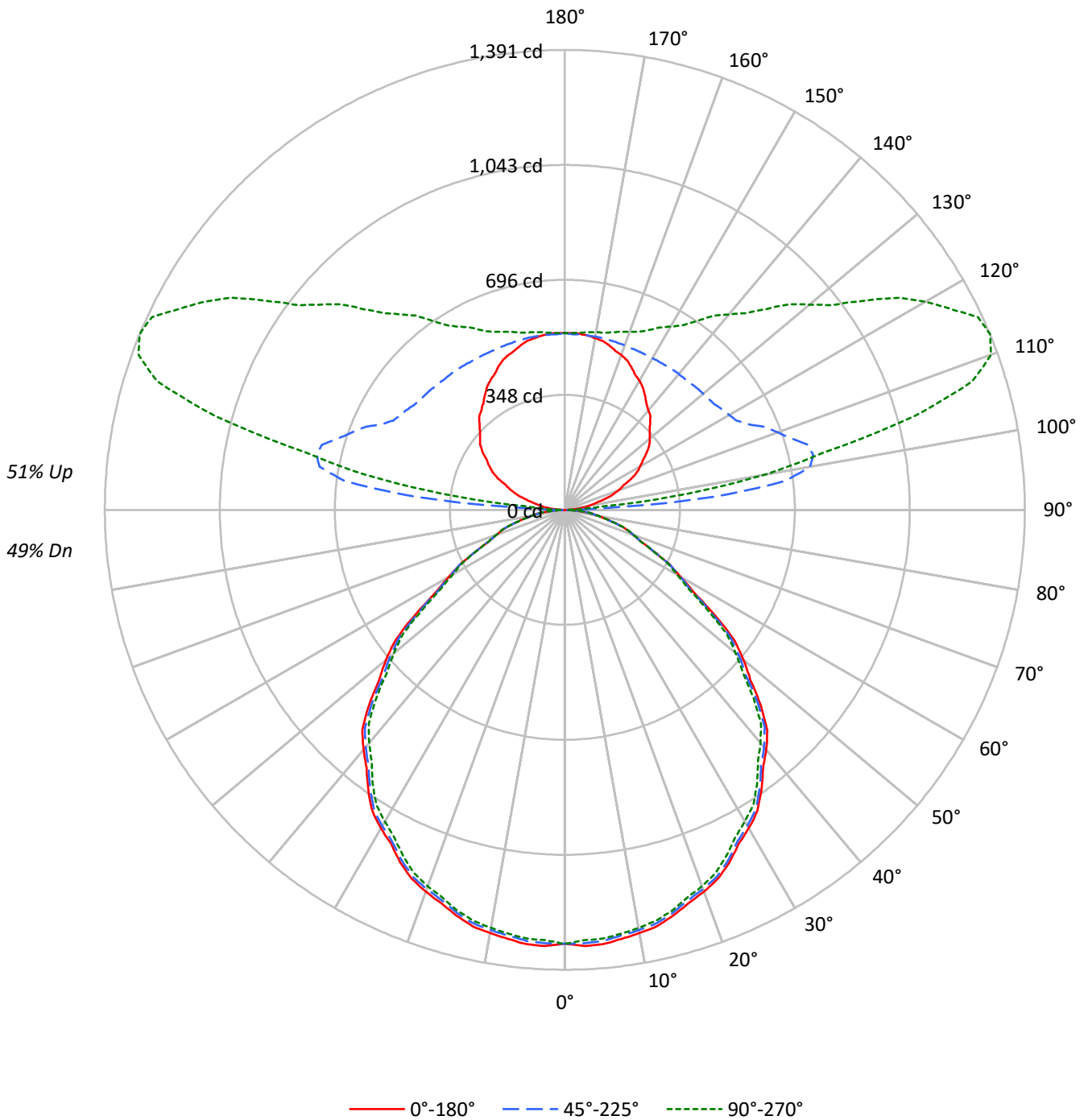
Lumens per Lamp: N/A
Luminaire Lumens: 6753.8 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13

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	1.8
10°-20°	355.1	5.3
20°-30°	535.5	7.9
30°-40°	638.1	9.4
40°-50°	629.1	9.3
50°-60°	480.8	7.1
60°-70°	297.5	4.4
70°-80°	169.0	2.5
80°-90°	52.5	0.8
90°-100°	250.2	3.7
100°-110°	690.9	10.2
110°-120°	712.5	10.5
120°-130°	572.6	8.5
130°-140°	450.0	6.7
140°-150°	345.1	5.1
150°-160°	248.0	3.7
160°-170°	151.7	2.2
170°-180°	51.1	0.8
0°-30°	1014.7	15.0
0°-40°	1652.8	24.5
0°-60°	2762.7	40.9
0°-90°	3281.7	48.6
90°-120°	1653.6	24.5
90°-150°	3021.2	44.7
90°-180°	3472.0	51.4
0°-180°	6753.8	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°	2	3	7	8	8	4
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	

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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°	12.1	16.0	19.5	19.6	18.9
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)