

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: P564494

Luminaire Tested: **SQ4-PR1-150U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564494
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

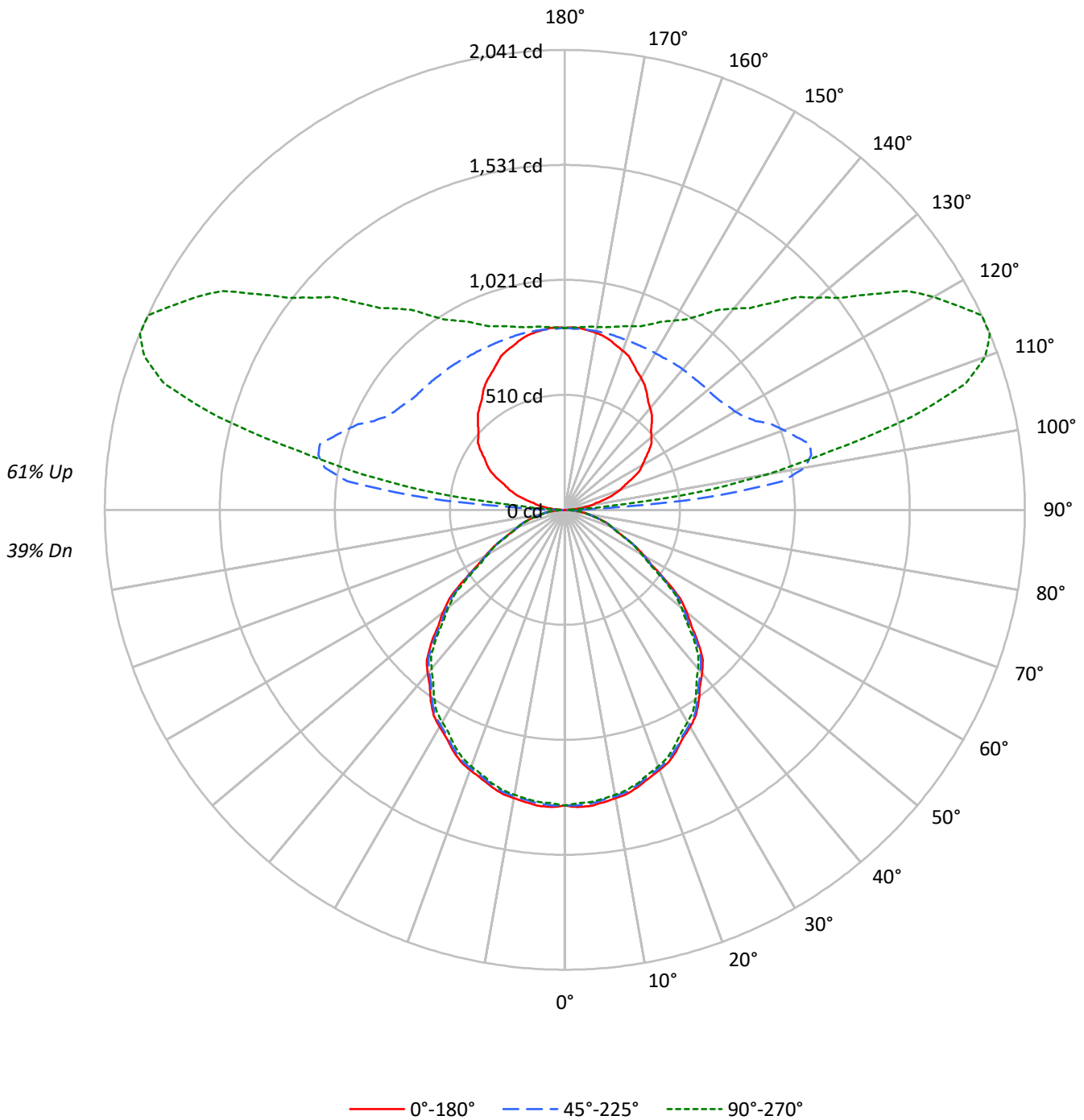
Lumens per Lamp: N/A
Luminaire Lumens: 8489.9 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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	1.5
10°-20°	355.1	4.2
20°-30°	535.5	6.3
30°-40°	638.1	7.5
40°-50°	629.1	7.4
50°-60°	480.8	5.7
60°-70°	297.5	3.5
70°-80°	169.0	2.0
80°-90°	53.1	0.6
90°-100°	375.4	4.4
100°-110°	1014.9	12.0
110°-120°	1067.1	12.6
120°-130°	866.7	10.2
130°-140°	679.9	8.0
140°-150°	521.8	6.1
150°-160°	375.3	4.4
160°-170°	229.3	2.7
170°-180°	77.3	0.9
0°-30°	1014.7	12.0
0°-40°	1652.8	19.5
0°-60°	2762.7	32.5
0°-90°	3282.3	38.7
90°-120°	2457.4	28.9
90°-150°	4525.8	53.3
90°-180°	5208.0	61.3
0°-180°	8489.9	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	5	11	12	11	6
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

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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	16.3	20.3	20.5	19.4
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)