

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: P564371

Luminaire Tested: **SQ4-PR1-125U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564371
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

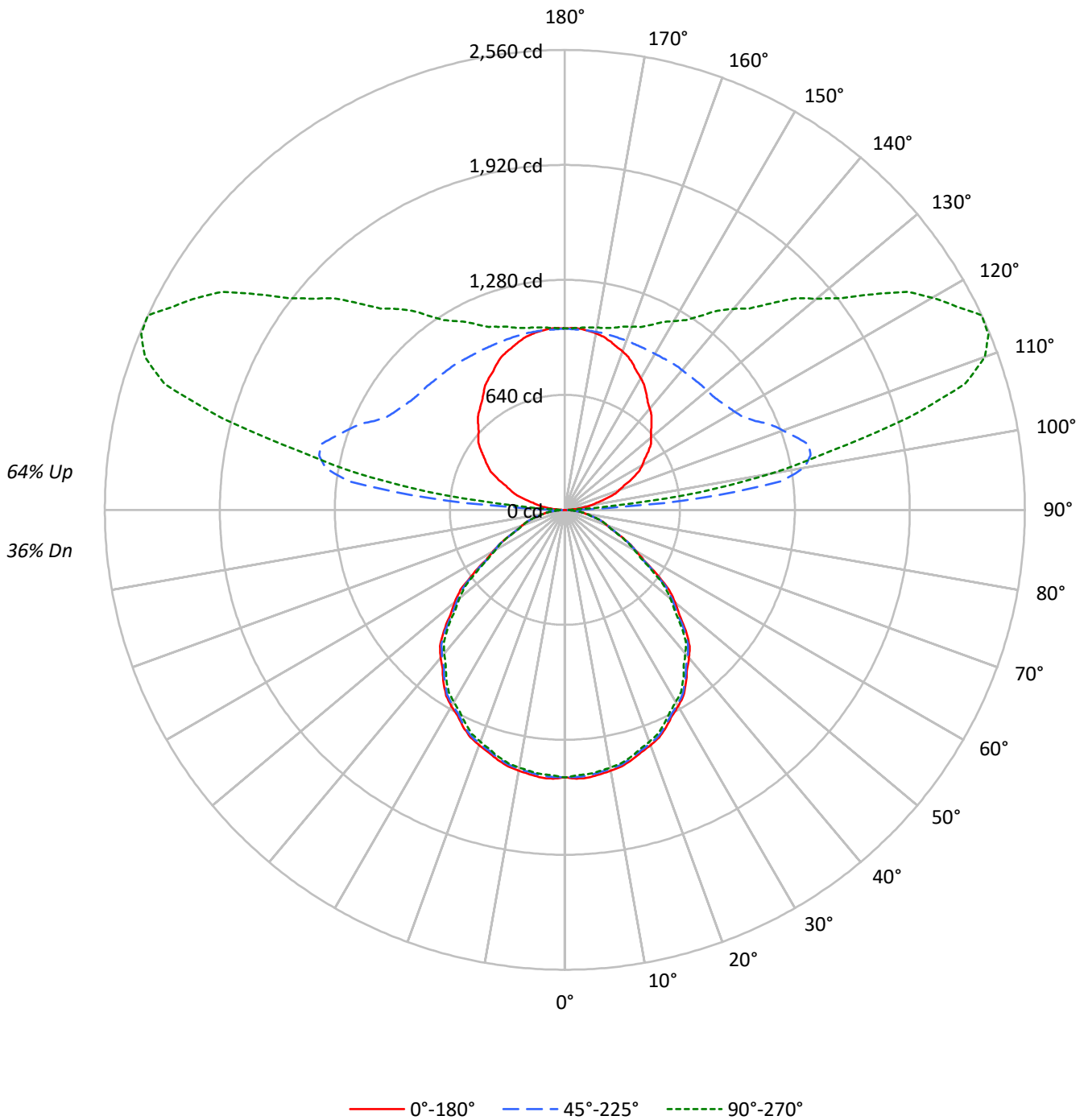
Lumens per Lamp: N/A
Luminaire Lumens: 10240.6 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5585	5474
65°	4871	4890	4854
70°	4474	4498	4498
75°	4297	4297	4328
80°	4042	4088	4042
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.4
10°-20°	402.9	3.9
20°-30°	607.7	5.9
30°-40°	724.0	7.1
40°-50°	713.8	7.0
50°-60°	545.6	5.3
60°-70°	337.6	3.3
70°-80°	191.7	1.9
80°-90°	60.7	0.6
90°-100°	472.2	4.6
100°-110°	1271.9	12.4
110°-120°	1334.8	13.0
120°-130°	1083.2	10.6
130°-140°	849.5	8.3
140°-150°	652.2	6.4
150°-160°	468.9	4.6
160°-170°	286.5	2.8
170°-180°	96.6	0.9
0°-30°	1151.4	11.2
0°-40°	1875.4	18.3
0°-60°	3134.8	30.6
0°-90°	3724.8	36.4
90°-120°	3078.9	30.1
90°-150°	5663.8	55.3
90°-180°	6516.0	63.6
0°-180°	10240.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1497	1480	1485	1480	1478	142
15°	1440	1425	1431	1426	1424	406
25°	1335	1319	1326	1312	1311	614
35°	1176	1162	1166	1150	1149	734
45°	952	939	935	918	916	729
55°	623	613	609	599	596	559
65°	335	332	336	334	334	339
75°	181	181	181	182	182	191
85°	46	49	51	51	51	54
90°	3	8	15	17	17	7
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1498.3	1485.2	1489.1	1485.8	1478.8
5°	1496.8	1480.4	1485.2	1480.0	1477.5
7.5°	1485.2	1469.2	1473.9	1468.8	1467.3
10°	1474.9	1459.9	1464.7	1459.5	1457.0
12.5°	1463.7	1447.6	1453.4	1447.2	1444.7
15°	1440.3	1425.3	1431.3	1426.2	1423.6
17.5°	1414.7	1398.6	1404.7	1398.7	1395.4
20°	1394.1	1379.1	1385.2	1376.2	1374.9
22.5°	1371.6	1356.5	1362.6	1350.5	1350.3
25°	1335.1	1318.8	1326.2	1312.0	1310.8
27.5°	1291.8	1276.7	1282.8	1268.4	1266.9
30°	1262.0	1247.0	1253.1	1237.6	1235.1
32.5°	1228.2	1214.1	1219.2	1203.8	1202.3
35°	1176.1	1162.3	1165.9	1150.4	1149.2
37.5°	1116.9	1104.3	1106.3	1089.4	1088.1
40°	1074.8	1062.2	1063.2	1045.3	1044.0
42.5°	1028.6	1016.1	1015.0	997.0	995.8
45°	951.7	939.1	935.0	918.3	915.8
47.5°	863.9	851.4	843.7	830.0	828.3
50°	800.3	787.8	781.1	769.5	765.7
52.5°	731.6	719.0	713.4	702.8	699.0
55°	623.3	613.3	609.2	598.9	596.4
57.5°	520.5	513.7	512.5	502.5	501.5
60°	457.9	454.1	454.0	445.0	445.0
62.5°	404.5	401.8	403.8	397.8	396.8
65°	334.7	332.2	336.0	333.5	333.5
67.5°	279.6	279.6	281.9	280.9	280.9
70°	248.8	248.8	250.1	250.1	250.1
72.5°	221.1	220.1	223.4	223.4	222.4
75°	180.8	180.8	180.8	182.1	182.1
77.5°	140.8	141.1	142.1	141.8	140.8
80°	114.1	115.4	115.4	114.1	114.1
82.5°	87.5	88.7	88.8	88.5	87.5
85°	46.2	48.7	51.3	51.3	51.3
87.5°	13.9	18.9	23.6	23.8	22.8
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)