

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: P523762

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523762
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

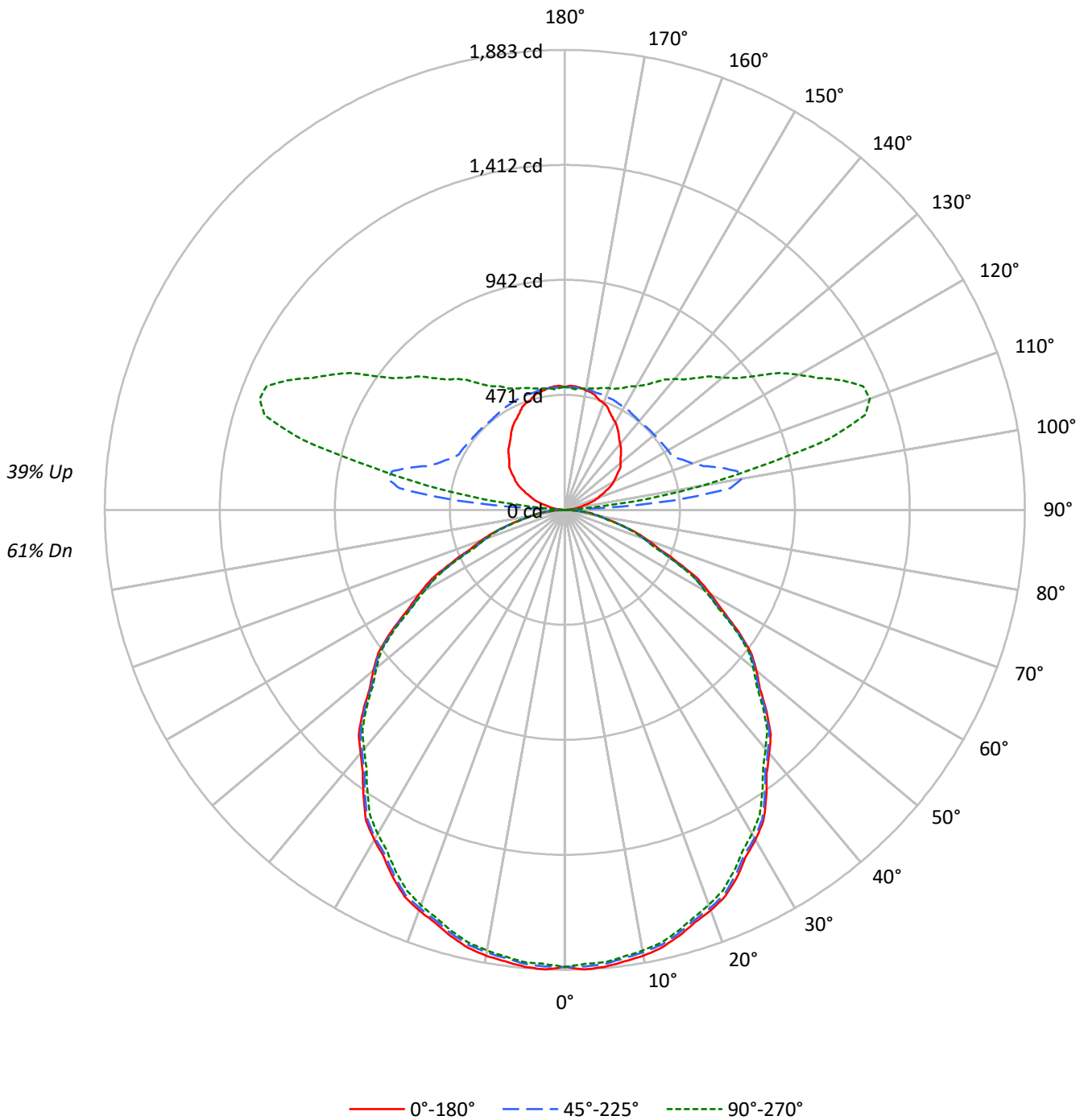
Input Watts (W): 79.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	51	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17393	17286	17225
10°	17364	17240	17163
15°	17248	17155	17060
20°	17134	17038	16908
25°	16930	16813	16646
30°	16617	16530	16320
35°	16183	16071	15869
40°	15664	15566	15389
45°	15237	15130	14980
50°	14689	14596	14454
55°	13930	13745	13640
60°	12680	12317	12258
65°	11171	10706	10671
70°	9644	9247	9247
75°	8302	8185	8067
80°	7322	7407	7231
85°	5727	6246	6246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.2
10°-20°	505.3	6.4
20°-30°	756.8	9.6
30°-40°	887.7	11.2
40°-50°	890.5	11.2
50°-60°	759.7	9.6
60°-70°	495.4	6.3
70°-80°	248.5	3.1
80°-90°	68.8	0.9
90°-100°	229.3	2.9
100°-110°	652.5	8.2
110°-120°	625.2	7.9
120°-130°	494.8	6.3
130°-140°	397.1	5.0
140°-150°	310.9	3.9
150°-160°	227.5	2.9
160°-170°	140.9	1.8
170°-180°	47.8	0.6
0°-30°	1439.1	18.2
0°-40°	2326.8	29.4
0°-60°	3977.0	50.2
0°-90°	4789.7	60.5
90°-120°	1507.0	19.0
90°-150°	2709.8	34.2
90°-180°	3126.0	39.5
0°-180°	7915.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1878	1860	1866	1860	1860	178
15°	1806	1788	1796	1789	1786	509
25°	1663	1644	1652	1637	1635	765
35°	1437	1422	1427	1410	1409	897
45°	1168	1160	1160	1148	1148	899
55°	866	863	854	850	848	770
65°	512	502	490	487	489	511
75°	233	233	230	228	226	253
85°	54	59	59	59	59	64
90°	0	0	0	0	0	3
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1883.2	1867.8	1871.4	1868.6	1860.9
5°	1878.0	1860.3	1866.5	1859.9	1859.9
7.5°	1865.2	1845.9	1852.0	1845.5	1845.2
10°	1853.4	1834.1	1840.2	1833.6	1832.0
12.5°	1836.3	1817.1	1824.5	1816.6	1816.3
15°	1805.8	1788.2	1796.0	1789.3	1786.1
17.5°	1771.3	1752.1	1761.5	1752.3	1751.0
20°	1745.1	1725.9	1735.3	1722.1	1722.1
22.5°	1713.6	1694.4	1705.1	1688.0	1688.0
25°	1663.1	1643.9	1651.6	1636.8	1635.2
27.5°	1603.1	1584.1	1592.2	1575.5	1575.2
30°	1559.8	1542.1	1551.6	1533.5	1531.9
32.5°	1512.5	1496.2	1503.0	1484.9	1483.3
35°	1436.8	1422.3	1426.9	1410.5	1408.9
37.5°	1357.0	1342.3	1347.5	1333.4	1332.8
40°	1300.6	1291.0	1292.4	1280.9	1277.7
42.5°	1248.1	1237.2	1238.6	1227.1	1226.5
45°	1167.8	1159.8	1159.6	1148.1	1148.1
47.5°	1082.5	1076.4	1074.6	1065.1	1064.8
50°	1023.4	1018.6	1016.9	1008.6	1007.0
52.5°	961.8	959.5	953.9	947.0	946.7
55°	866.0	862.8	854.5	849.6	848.0
57.5°	762.0	755.6	746.3	739.1	740.4
60°	687.2	680.8	667.5	664.3	664.3
62.5°	615.1	607.4	594.1	589.5	592.1
65°	511.7	502.1	490.4	487.2	488.8
67.5°	417.9	409.2	396.6	396.6	395.3
70°	357.5	352.7	342.8	342.8	342.8
72.5°	303.8	301.5	294.2	294.2	292.9
75°	232.9	232.9	229.6	227.9	226.3
77.5°	174.5	175.2	173.5	171.8	168.9
80°	137.8	141.0	139.4	137.7	136.1
82.5°	103.7	106.9	106.6	103.6	103.3
85°	54.1	58.9	59.0	59.0	59.0
87.5°	14.4	19.6	21.0	21.0	22.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)