

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: P523710

Luminaire Tested: **SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523710
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-PP3-050U-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 500 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: 6878.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

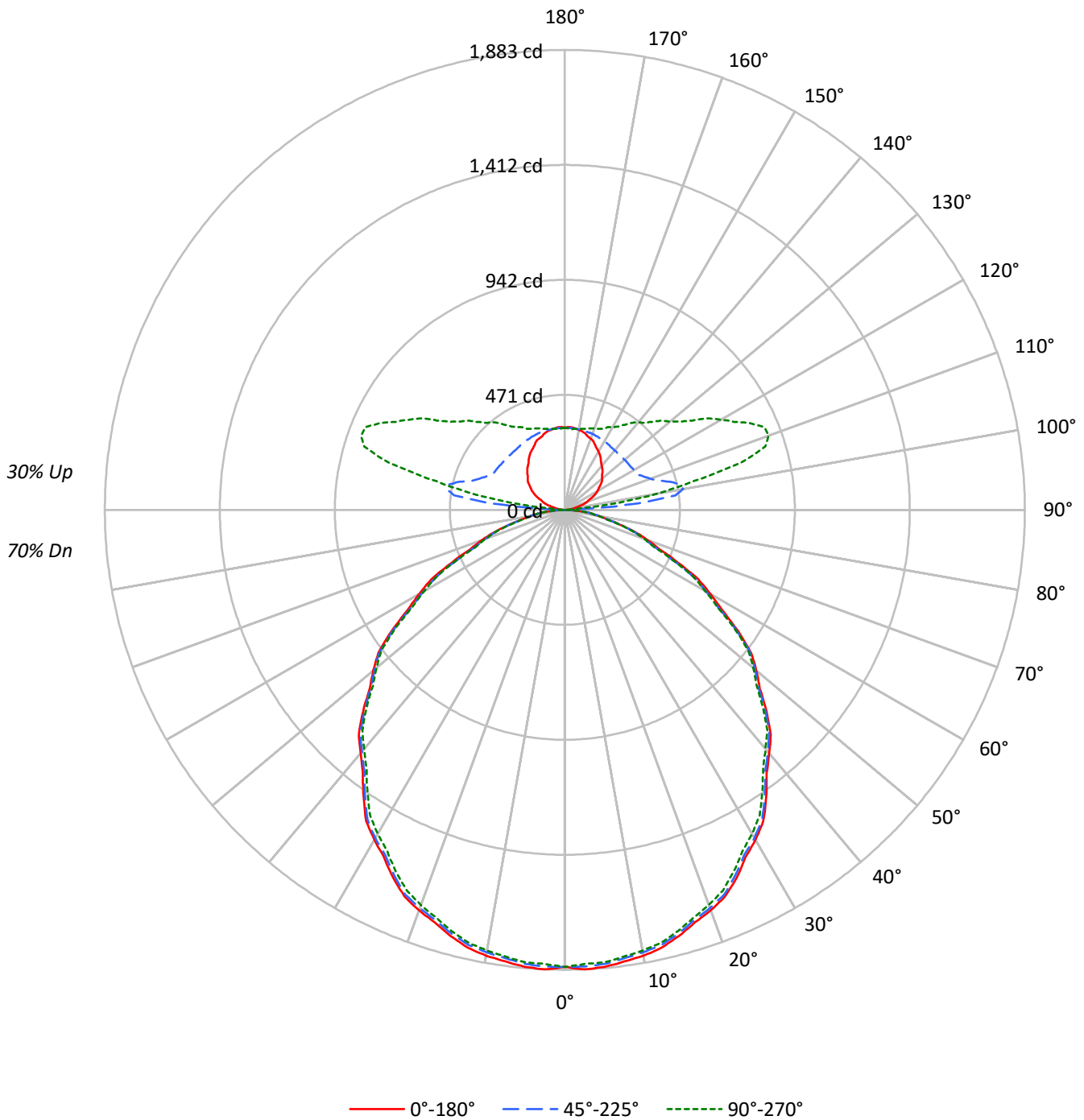
Input Watts (W): 71.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	91	97	93	90	86	83	81	78	74	72	71	66	65	63	59
2	94	86	80	75	88	82	76	71	73	69	65	66	62	59	58	56	54	50
3	86	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35	32
6	66	54	46	40	63	52	44	38	47	40	36	42	37	33	38	34	31	28
7	62	49	41	35	58	47	39	34	43	36	32	39	33	29	35	31	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	38	30	25	47	36	29	24	33	27	23	30	25	22	27	23	20	18

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	2.6
10°-20°	505.3	7.3
20°-30°	756.8	11.0
30°-40°	887.7	12.9
40°-50°	890.5	12.9
50°-60°	759.7	11.0
60°-70°	495.4	7.2
70°-80°	248.5	3.6
80°-90°	68.8	1.0
90°-100°	153.2	2.2
100°-110°	435.9	6.3
110°-120°	417.6	6.1
120°-130°	330.5	4.8
130°-140°	265.3	3.9
140°-150°	207.7	3.0
150°-160°	152.0	2.2
160°-170°	94.1	1.4
170°-180°	31.9	0.5
0°-30°	1439.1	20.9
0°-40°	2326.8	33.8
0°-60°	3977.0	57.8
0°-90°	4789.7	69.6
90°-120°	1006.7	14.6
90°-150°	1810.2	26.3
90°-180°	2088.0	30.4
0°-180°	6878.0	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°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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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°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)