

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: P523658

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523658
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-PP3-025U-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 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

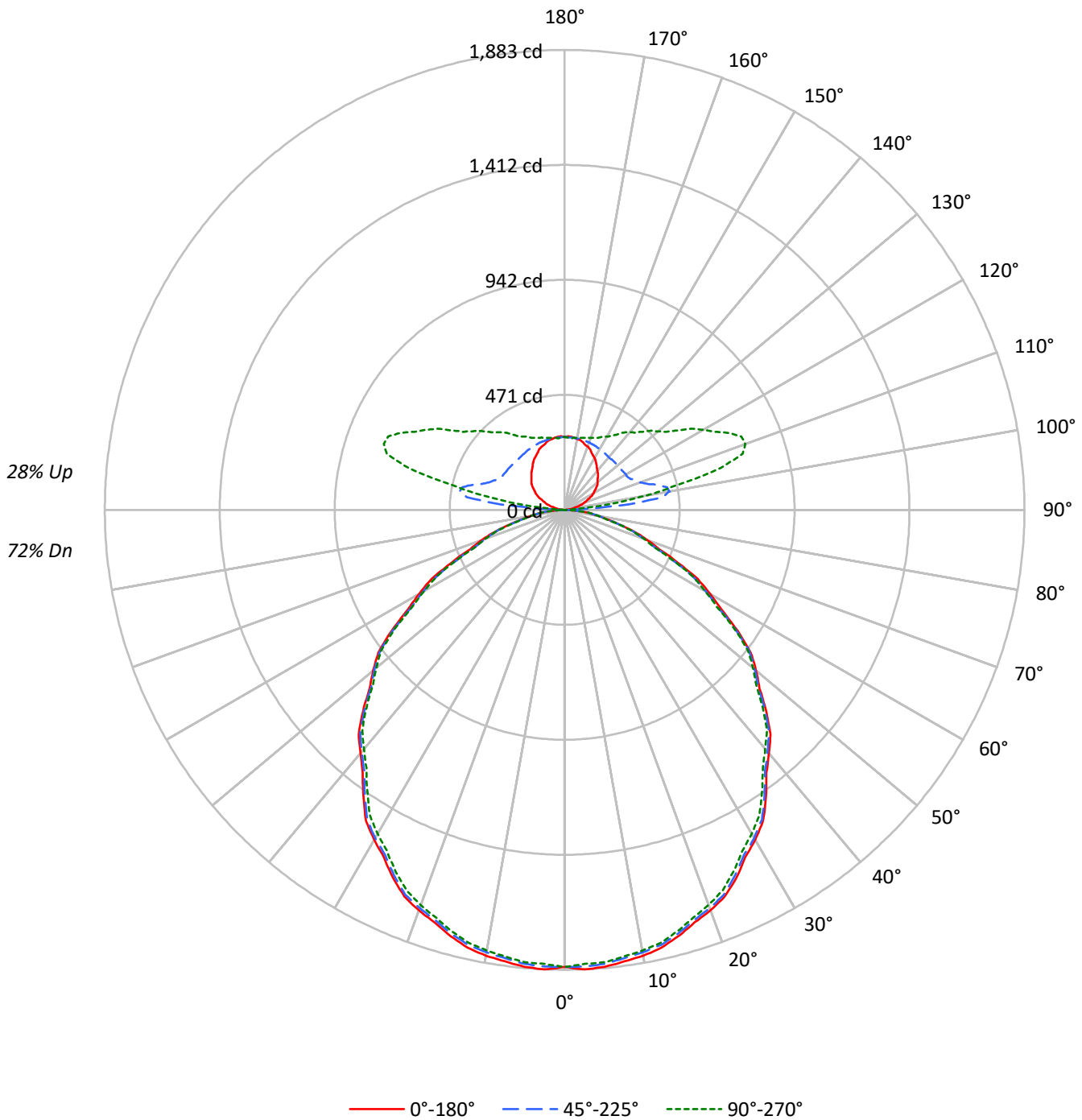
Lumens per Lamp: N/A
Luminaire Lumens: 6642.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.6
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	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	52
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	44
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	38
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	33
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	29
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	26
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	21
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	19

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	2.7
10°-20°	505.3	7.6
20°-30°	756.8	11.4
30°-40°	887.7	13.4
40°-50°	890.5	13.4
50°-60°	759.7	11.4
60°-70°	495.4	7.5
70°-80°	248.5	3.7
80°-90°	68.8	1.0
90°-100°	135.9	2.0
100°-110°	386.8	5.8
110°-120°	370.6	5.6
120°-130°	293.3	4.4
130°-140°	235.4	3.5
140°-150°	184.3	2.8
150°-160°	134.8	2.0
160°-170°	83.5	1.3
170°-180°	28.3	0.4
0°-30°	1439.1	21.7
0°-40°	2326.8	35.0
0°-60°	3977.0	59.9
0°-90°	4789.7	72.1
90°-120°	893.2	13.4
90°-150°	1606.2	24.2
90°-180°	1853.0	27.9
0°-180°	6642.7	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°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

TEST NUMBER: P523658

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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°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)