

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: P523866

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523866
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-PP3-100U-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 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

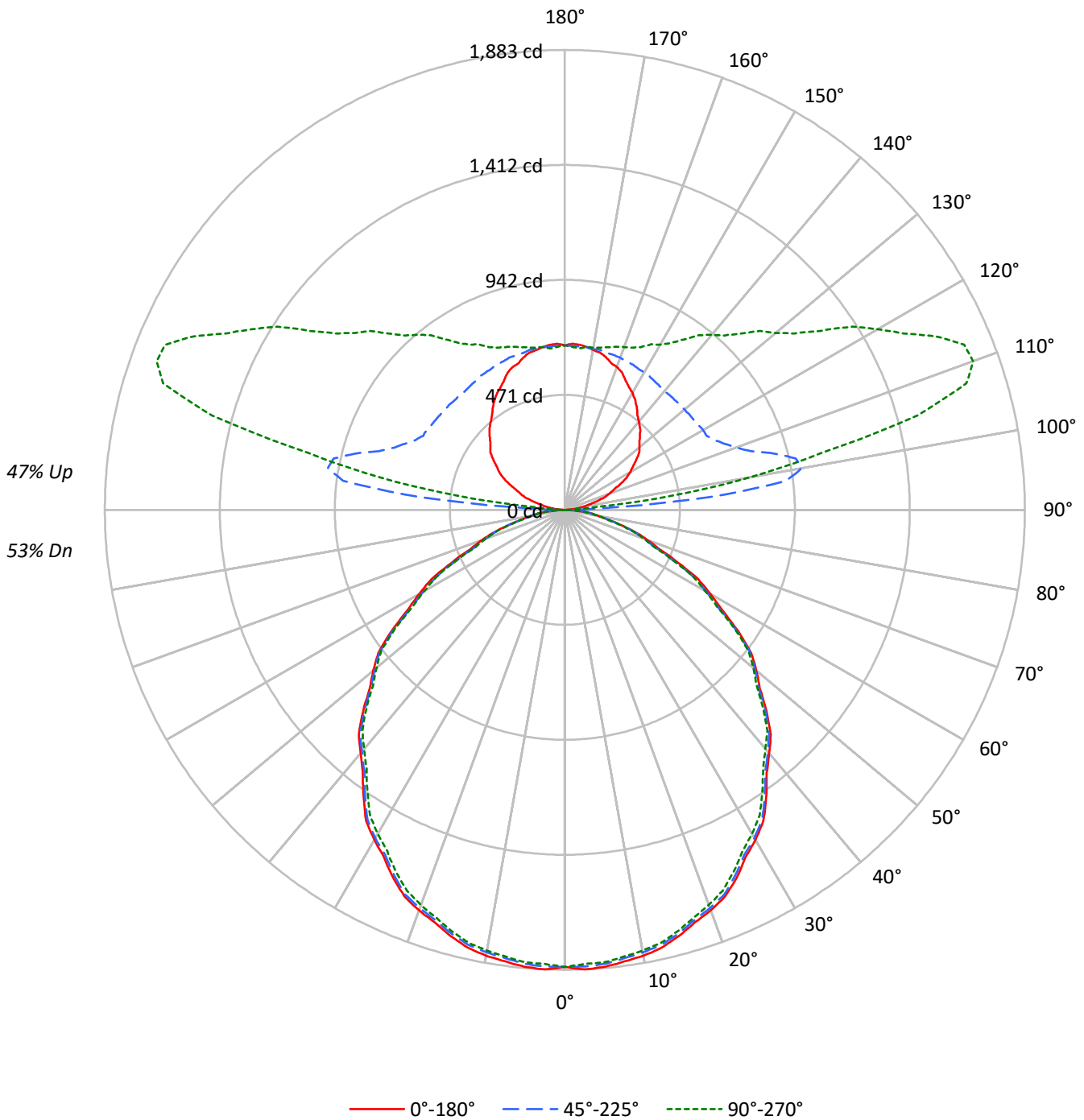
Lumens per Lamp: N/A
Luminaire Lumens: 8973.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	49	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	22
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

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	2.0
10°-20°	505.3	5.6
20°-30°	756.8	8.4
30°-40°	887.7	9.9
40°-50°	890.5	9.9
50°-60°	759.7	8.5
60°-70°	495.4	5.5
70°-80°	248.5	2.8
80°-90°	68.8	0.8
90°-100°	306.9	3.4
100°-110°	873.2	9.7
110°-120°	836.6	9.3
120°-130°	662.1	7.4
130°-140°	531.5	5.9
140°-150°	416.1	4.6
150°-160°	304.4	3.4
160°-170°	188.6	2.1
170°-180°	64.0	0.7
0°-30°	1439.1	16.0
0°-40°	2326.8	25.9
0°-60°	3977.0	44.3
0°-90°	4789.7	53.4
90°-120°	2016.7	22.5
90°-150°	3626.3	40.4
90°-180°	4183.0	46.6
0°-180°	8973.1	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°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	



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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°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)