

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: P523873

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523873
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10046.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

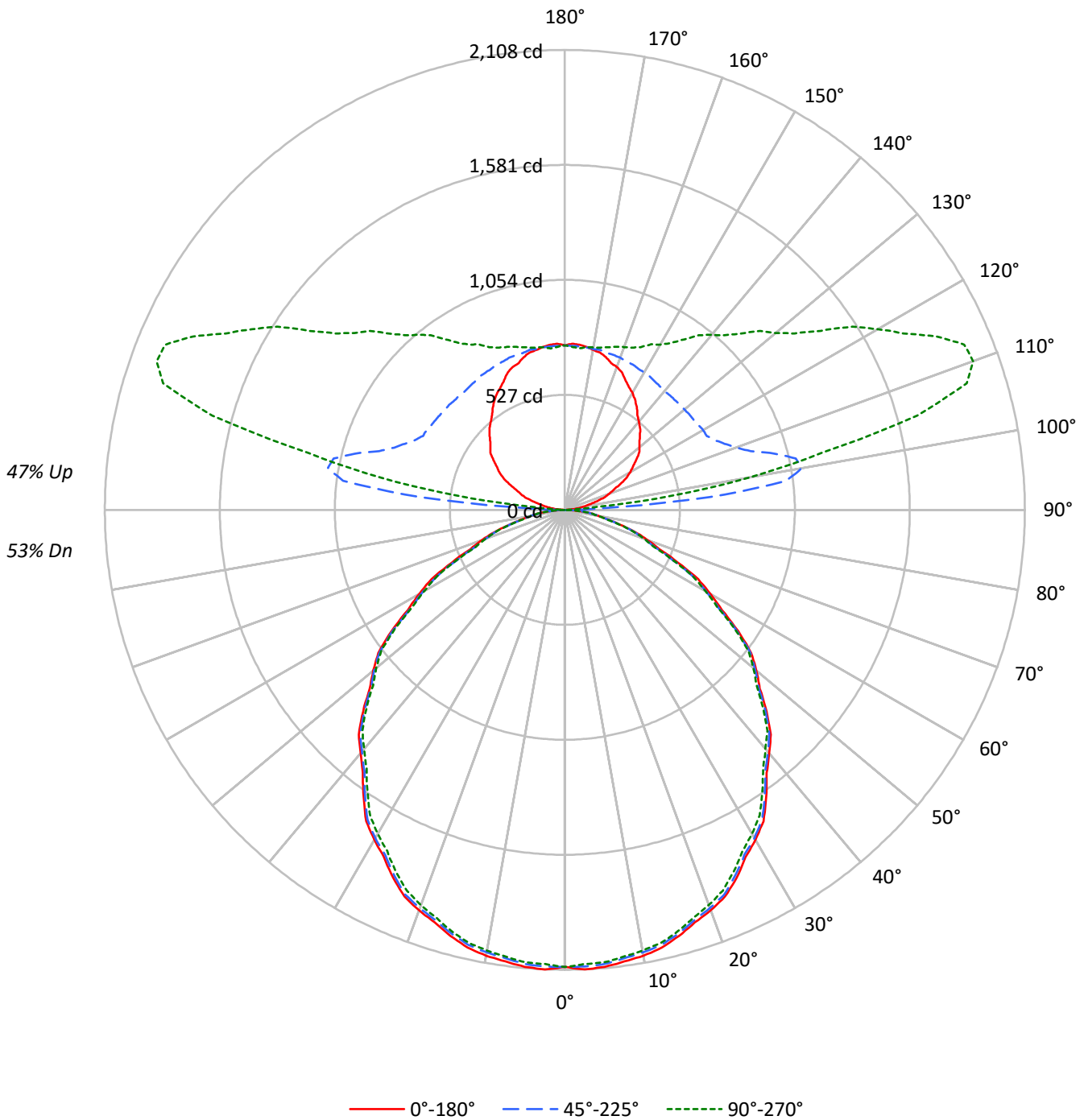
Input Watts (W): 87.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523873

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523873

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (6500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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°	19331	19331	19331
5°	19472	19353	19285
10°	19440	19302	19216
15°	19311	19206	19100
20°	19183	19074	18931
25°	18955	18824	18637
30°	18604	18506	18272
35°	18117	17993	17765
40°	17537	17428	17228
45°	17059	16939	16772
50°	16446	16341	16183
55°	15595	15389	15270
60°	14197	13791	13723
65°	12507	11985	11946
70°	10798	10353	10353
75°	9293	9165	9033
80°	8193	8294	8097
85°	6415	6997	6997



TEST NUMBER: P523873

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	2.0
10°-20°	565.7	5.6
20°-30°	847.3	8.4
30°-40°	993.9	9.9
40°-50°	997.0	9.9
50°-60°	850.5	8.5
60°-70°	554.7	5.5
70°-80°	278.3	2.8
80°-90°	77.0	0.8
90°-100°	343.6	3.4
100°-110°	977.6	9.7
110°-120°	936.6	9.3
120°-130°	741.3	7.4
130°-140°	595.0	5.9
140°-150°	465.8	4.6
150°-160°	340.8	3.4
160°-170°	211.1	2.1
170°-180°	71.6	0.7
0°-30°	1611.1	16.0
0°-40°	2605.0	25.9
0°-60°	4452.5	44.3
0°-90°	5362.4	53.4
90°-120°	2257.8	22.5
90°-150°	4059.9	40.4
90°-180°	4684.0	46.6
0°-180°	10046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2102	2083	2090	2082	2082	200
15°	2022	2002	2011	2003	2000	570
25°	1862	1840	1849	1832	1831	856
35°	1608	1592	1598	1579	1577	1005
45°	1307	1298	1298	1285	1285	1007
55°	970	966	957	951	949	862
65°	573	562	549	545	547	572
75°	261	261	257	255	253	283
85°	61	66	66	66	66	71
90°	0	0	0	0	0	4
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

TEST NUMBER: P523873

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2095.2	2095.2	2095.2	2095.2	2095.2
2.5°	2108.4	2091.1	2095.2	2092.0	2083.4
5°	2102.5	2082.7	2089.6	2082.3	2082.3
7.5°	2088.2	2066.6	2073.5	2066.1	2065.8
10°	2075.0	2053.4	2060.3	2052.9	2051.1
12.5°	2055.9	2034.3	2042.6	2033.8	2033.5
15°	2021.7	2002.0	2010.7	2003.3	1999.7
17.5°	1983.1	1961.6	1972.1	1961.8	1960.4
20°	1953.8	1932.2	1942.7	1928.1	1928.1
22.5°	1918.5	1897.0	1909.0	1889.9	1889.9
25°	1862.0	1840.4	1849.1	1832.5	1830.7
27.5°	1794.7	1773.6	1782.6	1763.9	1763.5
30°	1746.3	1726.5	1737.1	1716.8	1715.1
32.5°	1693.4	1675.1	1682.7	1662.5	1660.7
35°	1608.5	1592.4	1597.5	1579.1	1577.3
37.5°	1519.3	1502.8	1508.7	1492.9	1492.1
40°	1456.1	1445.4	1447.0	1434.0	1430.4
42.5°	1397.4	1385.2	1386.7	1373.9	1373.1
45°	1307.4	1298.4	1298.2	1285.4	1285.4
47.5°	1211.9	1205.1	1203.1	1192.4	1192.1
50°	1145.8	1140.4	1138.5	1129.2	1127.5
52.5°	1076.8	1074.3	1068.0	1060.2	1059.9
55°	969.5	965.9	956.7	951.1	949.3
57.5°	853.1	845.9	835.5	827.4	828.9
60°	769.4	762.2	747.4	743.7	743.7
62.5°	688.6	680.0	665.1	660.0	662.9
65°	572.9	562.1	549.0	545.4	547.2
67.5°	467.9	458.2	444.0	444.0	442.5
70°	400.3	394.9	383.8	383.8	383.8
72.5°	340.1	337.6	329.4	329.4	328.0
75°	260.7	260.7	257.1	255.2	253.4
77.5°	195.4	196.1	194.3	192.4	189.1
80°	154.2	157.8	156.1	154.2	152.4
82.5°	116.1	119.6	119.4	116.0	115.7
85°	60.6	66.0	66.1	66.1	66.1
87.5°	16.2	21.9	23.5	23.5	25.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

TEST NUMBER: P523873

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)