

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: P523872

Luminaire Tested: **SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523872
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9951.7 lumens
Efficiency: N/A
Efficacy: 113.2 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

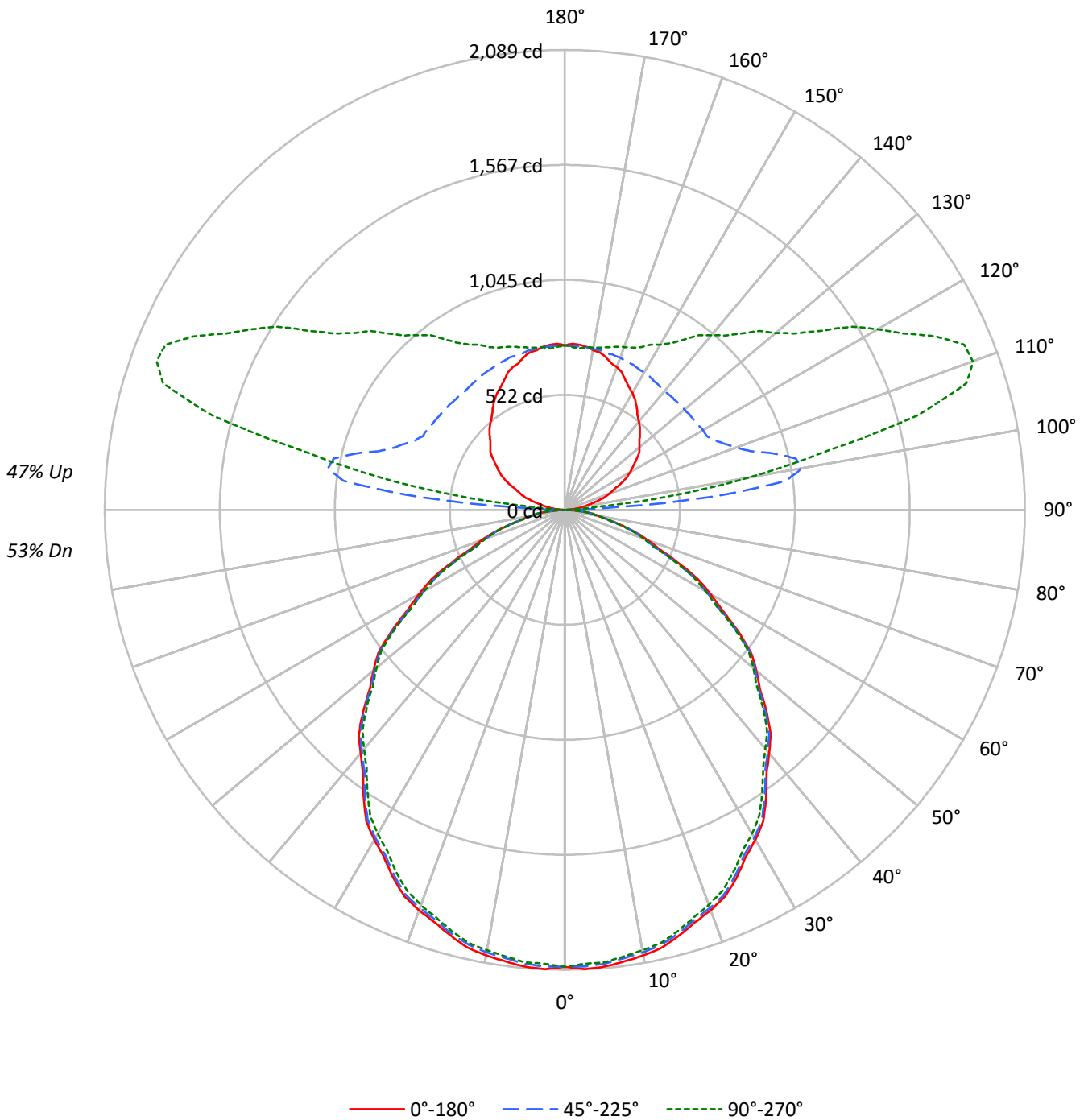
Input Watts (W): 87.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523872

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P523872

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5700K)

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°	19149	19149	19149
5°	19290	19171	19104
10°	19257	19120	19035
15°	19129	19025	18921
20°	19002	18895	18752
25°	18777	18647	18461
30°	18429	18333	18099
35°	17947	17824	17599
40°	17373	17264	17066
45°	16898	16779	16614
50°	16293	16188	16031
55°	15448	15244	15127
60°	14064	13660	13594
65°	12389	11874	11835
70°	10696	10256	10256
75°	9208	9079	8947
80°	8119	8214	8023
85°	6352	6934	6934



TEST NUMBER: P523872

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	2.0
10°-20°	560.4	5.6
20°-30°	839.4	8.4
30°-40°	984.5	9.9
40°-50°	987.6	9.9
50°-60°	842.5	8.5
60°-70°	549.5	5.5
70°-80°	275.7	2.8
80°-90°	76.3	0.8
90°-100°	340.3	3.4
100°-110°	968.4	9.7
110°-120°	927.8	9.3
120°-130°	734.4	7.4
130°-140°	589.4	5.9
140°-150°	461.5	4.6
150°-160°	337.6	3.4
160°-170°	209.1	2.1
170°-180°	71.0	0.7
0°-30°	1596.0	16.0
0°-40°	2580.5	25.9
0°-60°	4410.6	44.3
0°-90°	5312.1	53.4
90°-120°	2236.6	22.5
90°-150°	4021.8	40.4
90°-180°	4640.0	46.6
0°-180°	9951.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2083	2063	2070	2063	2063	198
15°	2003	1983	1992	1984	1981	565
25°	1844	1823	1832	1815	1814	848
35°	1593	1577	1582	1564	1562	995
45°	1295	1286	1286	1273	1273	997
55°	960	957	948	942	940	854
65°	568	557	544	540	542	566
75°	258	258	255	253	251	280
85°	60	65	66	66	66	71
90°	0	0	0	0	0	4
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	

TEST NUMBER: P523872

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2088.6	2071.5	2075.5	2072.4	2063.8
5°	2082.8	2063.2	2070.0	2062.7	2062.7
7.5°	2068.6	2047.2	2054.0	2046.7	2046.4
10°	2055.5	2034.1	2040.9	2033.6	2031.8
12.5°	2036.5	2015.2	2023.5	2014.7	2014.4
15°	2002.7	1983.2	1991.8	1984.4	1980.9
17.5°	1964.5	1943.2	1953.6	1943.4	1942.0
20°	1935.4	1914.1	1924.5	1909.9	1909.9
22.5°	1900.5	1879.1	1891.0	1872.1	1872.1
25°	1844.5	1823.1	1831.7	1815.3	1813.5
27.5°	1777.9	1756.9	1765.9	1747.3	1747.0
30°	1729.9	1710.3	1720.8	1700.7	1698.9
32.5°	1677.5	1659.3	1666.9	1646.9	1645.1
35°	1593.4	1577.4	1582.5	1564.3	1562.5
37.5°	1505.0	1488.7	1494.5	1478.8	1478.1
40°	1442.5	1431.8	1433.4	1420.6	1417.0
42.5°	1384.3	1372.2	1373.7	1361.0	1360.2
45°	1295.1	1286.2	1286.0	1273.3	1273.3
47.5°	1200.5	1193.8	1191.8	1181.2	1180.9
50°	1135.1	1129.7	1127.8	1118.6	1116.9
52.5°	1066.7	1064.2	1057.9	1050.3	1049.9
55°	960.4	956.9	947.7	942.2	940.4
57.5°	845.1	838.0	827.6	819.7	821.1
60°	762.2	755.0	740.3	736.7	736.7
62.5°	682.1	673.6	658.8	653.8	656.7
65°	567.5	556.9	543.9	540.3	542.1
67.5°	463.5	453.9	439.8	439.8	438.4
70°	396.5	391.2	380.2	380.2	380.2
72.5°	336.9	334.4	326.3	326.3	324.9
75°	258.3	258.3	254.7	252.8	251.0
77.5°	193.5	194.3	192.4	190.6	187.4
80°	152.8	156.4	154.6	152.8	151.0
82.5°	115.0	118.5	118.2	115.0	114.6
85°	60.0	65.4	65.5	65.5	65.5
87.5°	16.0	21.7	23.3	23.3	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

TEST NUMBER: P523872

CATALOG NUMBER: SQ4-PP3-100U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)