

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: P563690

Luminaire Tested: **SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563690
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

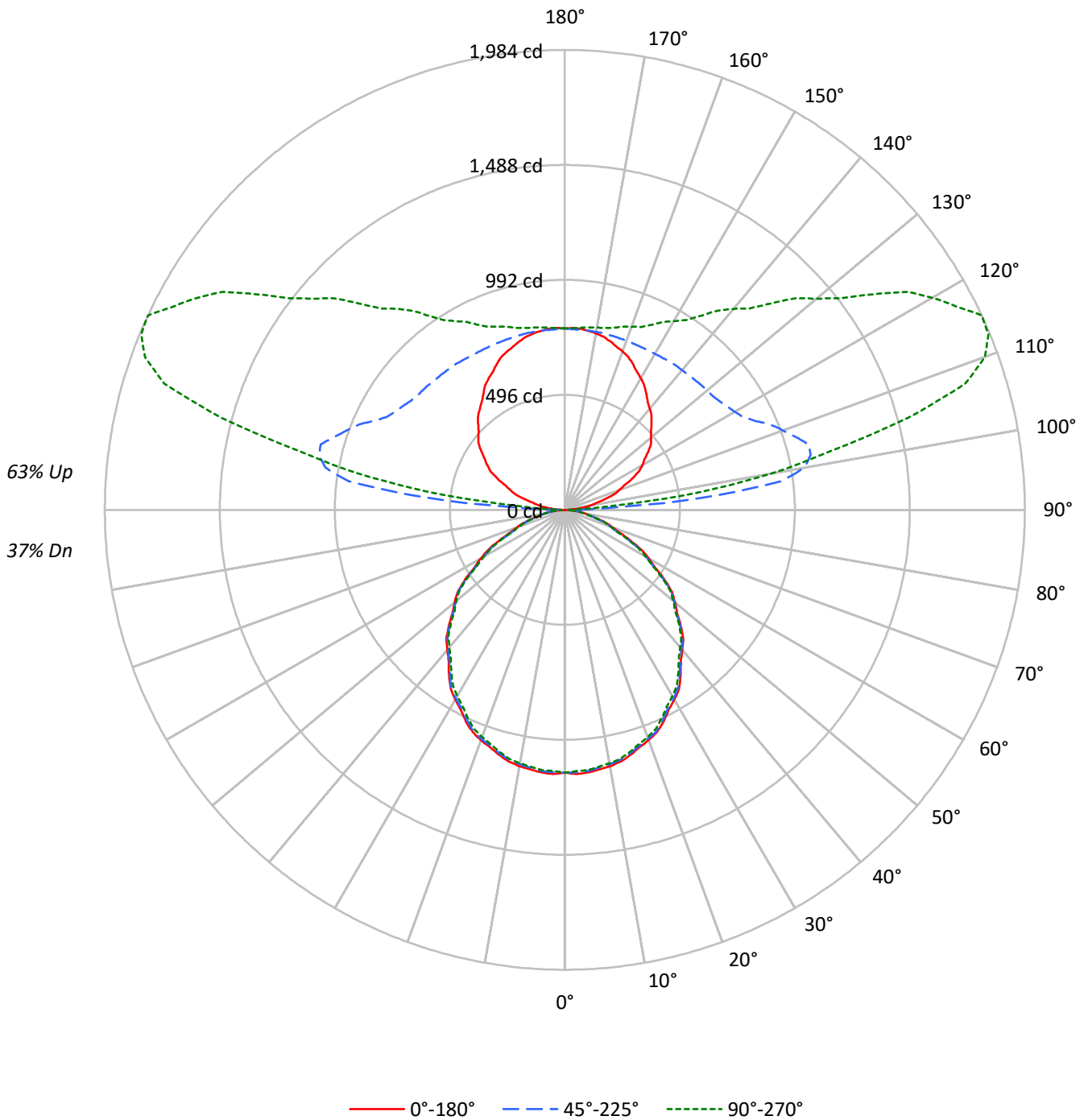
Lumens per Lamp: N/A
Luminaire Lumens: 7953.5 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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: P563690
CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563690

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10474	10437
10°	10520	10446	10399
15°	10450	10393	10337
20°	10381	10323	10244
25°	10257	10187	10085
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9432	9323
45°	9231	9167	9076
50°	8901	8843	8757
55°	8440	8327	8265
60°	7684	7462	7427
65°	6768	6486	6464
70°	5843	5603	5603
75°	5030	4959	4887
80°	4436	4490	4383
85°	3472	3790	3790



TEST NUMBER: P563690

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.3
10°-20°	306.1	3.8
20°-30°	458.5	5.8
30°-40°	537.9	6.8
40°-50°	539.5	6.8
50°-60°	460.3	5.8
60°-70°	300.2	3.8
70°-80°	150.6	1.9
80°-90°	43.5	0.5
90°-100°	365.9	4.6
100°-110°	985.7	12.4
110°-120°	1034.5	13.0
120°-130°	839.4	10.6
130°-140°	658.3	8.3
140°-150°	505.4	6.4
150°-160°	363.4	4.6
160°-170°	222.0	2.8
170°-180°	74.9	0.9
0°-30°	871.9	11.0
0°-40°	1409.8	17.7
0°-60°	2409.6	30.3
0°-90°	2903.9	36.5
90°-120°	2386.1	30.0
90°-150°	4389.3	55.2
90°-180°	5050.0	63.5
0°-180°	7953.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1138	1127	1131	1127	1127	108
15°	1094	1083	1088	1084	1082	309
25°	1008	996	1001	992	991	463
35°	870	862	864	855	854	544
45°	708	703	703	696	696	545
55°	525	523	518	515	514	466
65°	310	304	297	295	296	309
75°	141	141	139	138	137	153
85°	33	36	36	36	36	39
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

TEST NUMBER: P563690

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1141.0	1131.7	1133.8	1132.1	1127.5
5°	1137.8	1127.1	1130.9	1126.9	1126.9
7.5°	1130.1	1118.4	1122.1	1118.1	1117.9
10°	1122.9	1111.3	1115.0	1111.0	1110.0
12.5°	1112.6	1100.9	1105.4	1100.6	1100.5
15°	1094.1	1083.4	1088.1	1084.1	1082.2
17.5°	1073.2	1061.6	1067.3	1061.7	1060.9
20°	1057.3	1045.7	1051.4	1043.4	1043.4
22.5°	1038.2	1026.6	1033.1	1022.7	1022.7
25°	1007.6	996.0	1000.7	991.7	990.7
27.5°	971.3	959.8	964.7	954.6	954.4
30°	945.0	934.3	940.1	929.1	928.1
32.5°	916.4	906.5	910.7	899.7	898.7
35°	870.5	861.8	864.5	854.6	853.6
37.5°	822.2	813.3	816.4	807.9	807.5
40°	788.0	782.2	783.1	776.1	774.1
42.5°	756.2	749.6	750.5	743.5	743.1
45°	707.5	702.7	702.6	695.6	695.6
47.5°	655.9	652.2	651.1	645.3	645.1
50°	620.1	617.2	616.1	611.1	610.1
52.5°	582.7	581.4	578.0	573.8	573.6
55°	524.7	522.7	517.7	514.7	513.8
57.5°	461.7	457.8	452.1	447.8	448.6
60°	416.4	412.5	404.4	402.5	402.5
62.5°	372.6	368.0	359.9	357.2	358.7
65°	310.0	304.2	297.1	295.2	296.1
67.5°	253.2	248.0	240.3	240.3	239.5
70°	216.6	213.7	207.7	207.7	207.7
72.5°	184.0	182.7	178.3	178.3	177.5
75°	141.1	141.1	139.1	138.1	137.1
77.5°	105.7	106.1	105.1	104.1	102.4
80°	83.5	85.4	84.5	83.5	82.5
82.5°	62.8	64.7	64.6	62.8	62.6
85°	32.8	35.7	35.8	35.8	35.8
87.5°	9.1	13.0	15.1	15.3	16.1
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1

TEST NUMBER: P563690

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)