

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: P563752

Luminaire Tested: **SQ4-PP3-125U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563752
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-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

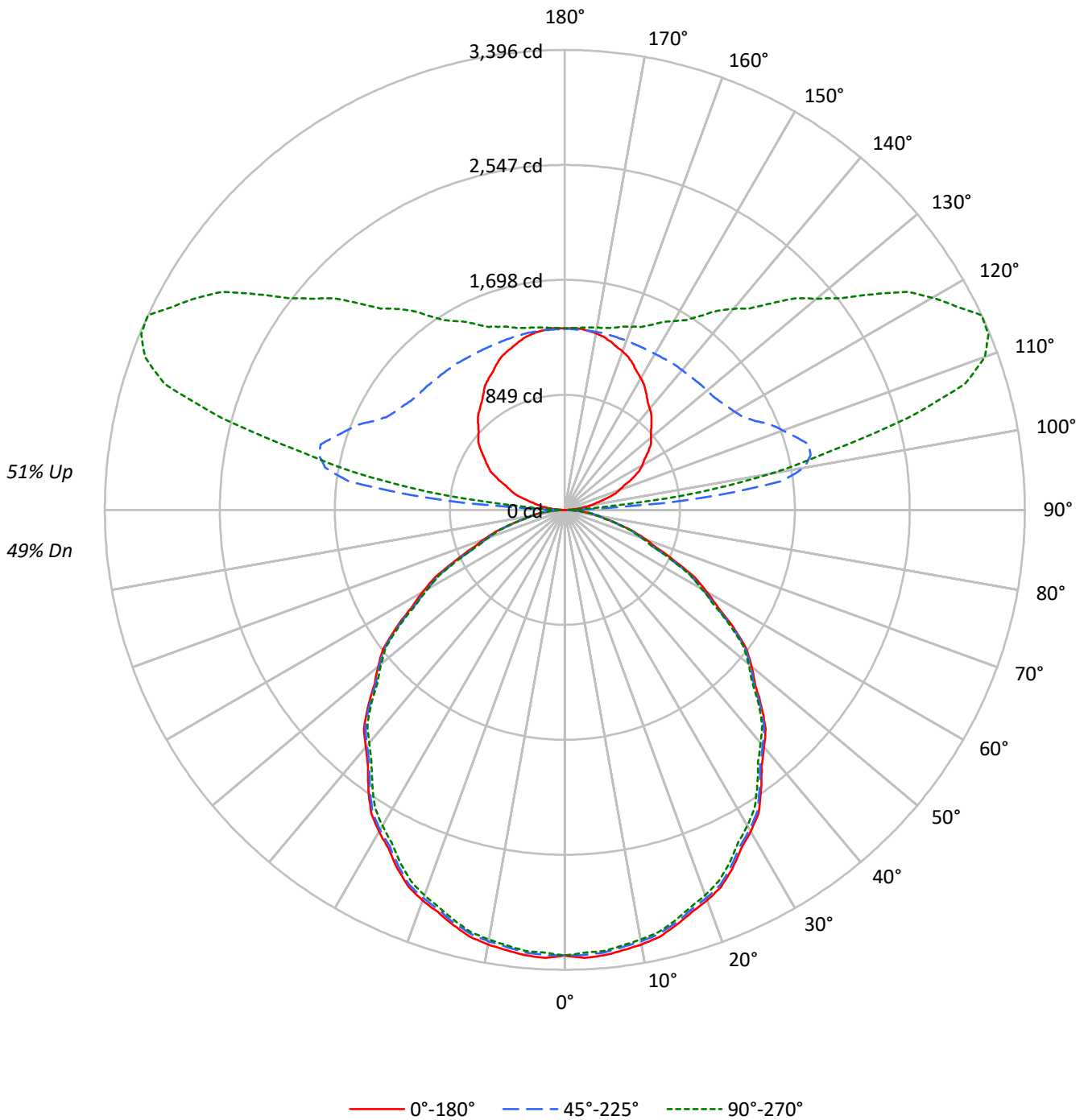
Lumens per Lamp: N/A
Luminaire Lumens: 17069.7 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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: P563752
CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563752

CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-8

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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15000
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13172
50°	12917	12833	12709
55°	12248	12086	11992
60°	11150	10831	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7197	7094
80°	6437	6514	6360
85°	5039	5494	5494



TEST NUMBER: P563752

CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	1.8
10°-20°	888.5	5.2
20°-30°	1330.9	7.8
30°-40°	1561.1	9.1
40°-50°	1566.0	9.2
50°-60°	1335.9	7.8
60°-70°	871.2	5.1
70°-80°	437.1	2.6
80°-90°	124.1	0.7
90°-100°	626.4	3.7
100°-110°	1687.3	9.9
110°-120°	1770.7	10.4
120°-130°	1436.9	8.4
130°-140°	1126.9	6.6
140°-150°	865.2	5.1
150°-160°	622.1	3.6
160°-170°	380.0	2.2
170°-180°	128.2	0.8
0°-30°	2530.6	14.8
0°-40°	4091.7	24.0
0°-60°	6993.6	41.0
0°-90°	8426.1	49.4
90°-120°	4084.4	23.9
90°-150°	7513.4	44.0
90°-180°	8644.0	50.6
0°-180°	17069.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3302	3271	3282	3271	3271	314
15°	3176	3144	3158	3147	3141	896
25°	2925	2891	2904	2878	2876	1345
35°	2527	2501	2509	2480	2478	1578
45°	2054	2040	2039	2019	2019	1581
55°	1523	1517	1503	1494	1491	1353
65°	900	883	862	857	860	898
75°	410	410	404	401	398	444
85°	95	104	104	104	104	112
90°	3	10	20	22	22	10
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	



TEST NUMBER: P563752

CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3311.7	3284.6	3290.9	3286.0	3272.4
5°	3302.4	3271.4	3282.2	3270.7	3270.7
7.5°	3279.9	3246.1	3256.9	3245.3	3244.8
10°	3259.2	3225.3	3236.1	3224.5	3221.7
12.5°	3229.2	3195.3	3208.4	3194.6	3194.0
15°	3175.5	3144.5	3158.2	3146.6	3140.9
17.5°	3115.0	3081.1	3097.7	3081.5	3079.2
20°	3068.8	3035.0	3051.5	3028.4	3028.4
22.5°	3013.4	2979.6	2998.4	2968.4	2968.4
25°	2924.6	2890.8	2904.4	2878.4	2875.6
27.5°	2819.0	2785.8	2800.0	2770.6	2770.0
30°	2742.9	2711.9	2728.5	2696.7	2693.9
32.5°	2659.8	2631.1	2643.1	2611.3	2608.5
35°	2526.6	2501.2	2509.3	2480.4	2477.5
37.5°	2386.4	2360.5	2369.7	2344.8	2343.7
40°	2287.2	2270.3	2272.8	2252.5	2246.8
42.5°	2194.9	2175.7	2178.2	2158.0	2156.8
45°	2053.6	2039.5	2039.1	2019.0	2019.0
47.5°	1903.6	1892.9	1889.7	1873.0	1872.4
50°	1799.8	1791.3	1788.2	1773.7	1770.9
52.5°	1691.3	1687.4	1677.5	1665.3	1664.8
55°	1522.9	1517.2	1502.7	1494.0	1491.1
57.5°	1340.0	1328.7	1312.3	1299.7	1301.9
60°	1208.5	1197.2	1173.9	1168.1	1168.1
62.5°	1081.6	1068.0	1044.7	1036.7	1041.2
65°	899.9	883.0	862.4	856.7	859.5
67.5°	734.9	719.7	697.4	697.4	695.1
70°	628.8	620.3	602.8	602.8	602.8
72.5°	534.2	530.2	517.4	517.4	515.1
75°	409.6	409.6	403.8	400.8	398.0
77.5°	306.9	308.0	305.2	302.2	297.1
80°	242.3	247.9	245.2	242.2	239.4
82.5°	182.3	187.9	187.5	182.3	181.7
85°	95.2	103.6	103.8	103.8	103.8
87.5°	26.1	36.4	41.0	41.4	43.7
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7



TEST NUMBER: P563752

CATALOG NUMBER: SQ4-PP3-125U-125D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)