

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: P563607

Luminaire Tested: **SQ4-PP3-100U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563607
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

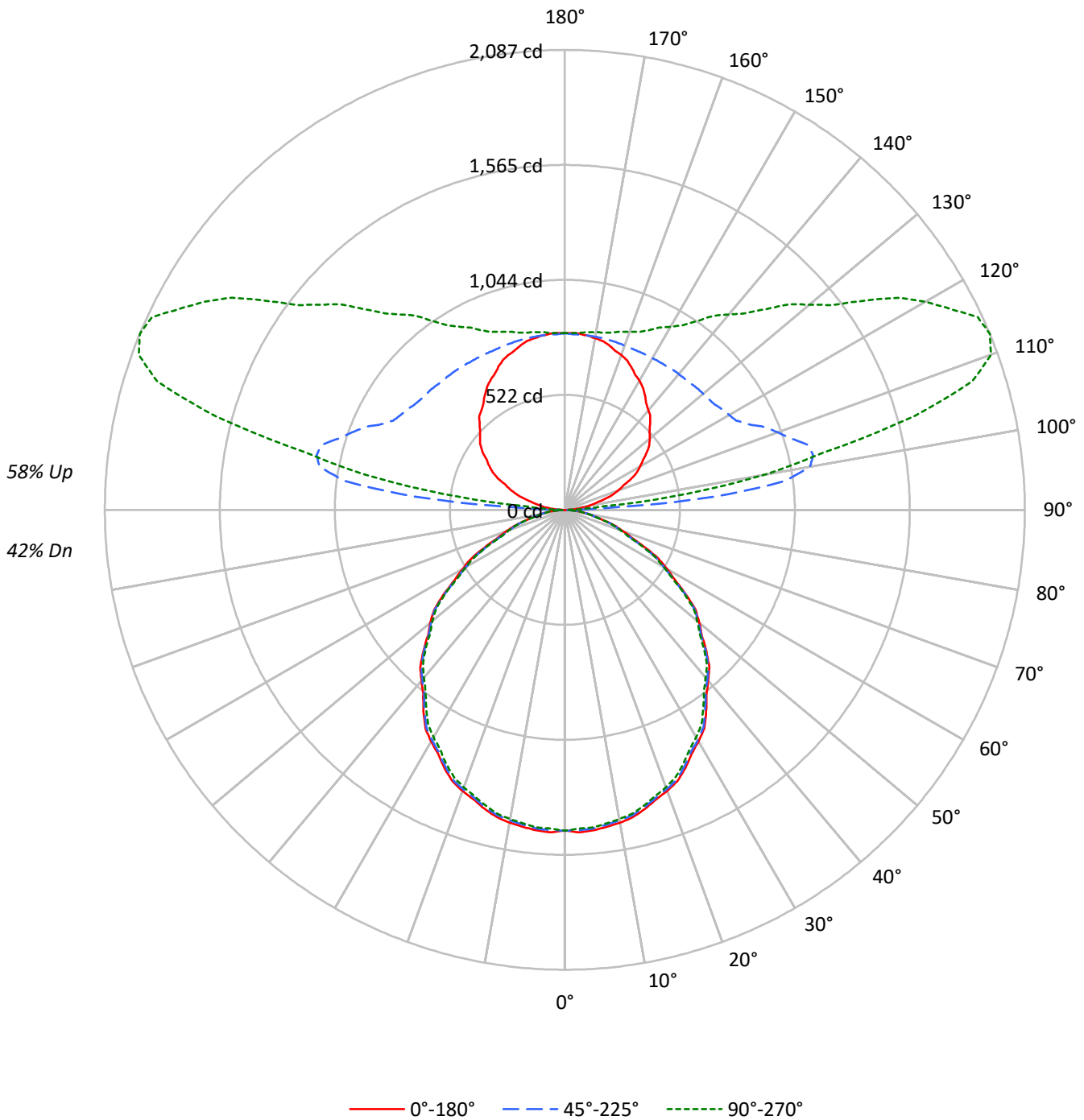
Lumens per Lamp: N/A
Luminaire Lumens: 8935.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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: P563607
CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563607

CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-6

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7618	7569	7495
55°	7223	7128	7073
60°	6575	6387	6356
65°	5793	5551	5533
70°	5001	4794	4794
75°	4306	4244	4185
80°	3797	3840	3751
85°	2971	3239	3239



TEST NUMBER: P563607

CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.5
10°-20°	393.0	4.4
20°-30°	588.7	6.6
30°-40°	690.5	7.7
40°-50°	692.7	7.8
50°-60°	590.9	6.6
60°-70°	385.4	4.3
70°-80°	193.3	2.2
80°-90°	55.2	0.6
90°-100°	375.4	4.2
100°-110°	1036.3	11.6
110°-120°	1068.7	12.0
120°-130°	858.8	9.6
130°-140°	674.9	7.6
140°-150°	517.7	5.8
150°-160°	372.0	4.2
160°-170°	227.5	2.5
170°-180°	76.7	0.9
0°-30°	1119.3	12.5
0°-40°	1809.9	20.3
0°-60°	3093.4	34.6
0°-90°	3727.3	41.7
90°-120°	2480.4	27.8
90°-150°	4531.8	50.7
90°-180°	5208.0	58.3
0°-180°	8935.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1461	1447	1452	1447	1447	139
15°	1405	1391	1397	1392	1389	396
25°	1294	1279	1285	1273	1272	595
35°	1118	1106	1110	1097	1096	698
45°	908	902	902	893	893	699
55°	674	671	665	661	660	599
65°	398	391	381	379	380	397
75°	181	181	179	177	176	197
85°	42	46	46	46	46	50
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

TEST NUMBER: P563607

CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1464.8	1452.8	1455.6	1453.5	1447.5
5°	1460.7	1447.0	1451.8	1446.7	1446.7
7.5°	1450.8	1435.8	1440.6	1435.5	1435.2
10°	1441.6	1426.6	1431.4	1426.3	1425.0
12.5°	1428.3	1413.4	1419.1	1413.0	1412.8
15°	1404.6	1390.9	1396.9	1391.8	1389.3
17.5°	1377.8	1362.8	1370.2	1363.0	1362.0
20°	1357.4	1342.4	1349.7	1339.5	1339.5
22.5°	1332.9	1317.9	1326.3	1313.0	1313.0
25°	1293.6	1278.6	1284.7	1273.2	1271.9
27.5°	1246.9	1232.2	1238.5	1225.5	1225.2
30°	1213.2	1199.5	1206.9	1192.8	1191.6
32.5°	1176.5	1163.8	1169.1	1155.0	1153.8
35°	1117.6	1106.3	1109.9	1097.1	1095.9
37.5°	1055.6	1044.1	1048.2	1037.2	1036.7
40°	1011.7	1004.2	1005.3	996.3	993.8
42.5°	970.8	962.4	963.4	954.5	954.0
45°	908.3	902.1	902.0	893.0	893.0
47.5°	842.0	837.3	835.9	828.5	828.2
50°	796.1	792.3	791.0	784.6	783.3
52.5°	748.1	746.4	742.0	736.6	736.4
55°	673.6	671.1	664.7	660.8	659.6
57.5°	592.7	587.7	580.5	574.9	575.9
60°	534.5	529.6	519.2	516.7	516.7
62.5°	478.4	472.4	462.1	458.6	460.5
65°	398.0	390.6	381.4	378.9	380.2
67.5°	325.1	318.3	308.5	308.5	307.5
70°	278.1	274.4	266.6	266.6	266.6
72.5°	236.3	234.5	228.9	228.8	227.8
75°	181.2	181.2	178.6	177.3	176.1
77.5°	135.7	136.2	135.0	133.6	131.4
80°	107.2	109.7	108.4	107.1	105.9
82.5°	80.6	83.1	82.9	80.6	80.4
85°	42.1	45.8	45.9	45.9	45.9
87.5°	11.7	16.2	18.4	18.7	19.9
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



TEST NUMBER: P563607

CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)