

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: P562935

Luminaire Tested: **SQ4-PC3-100U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

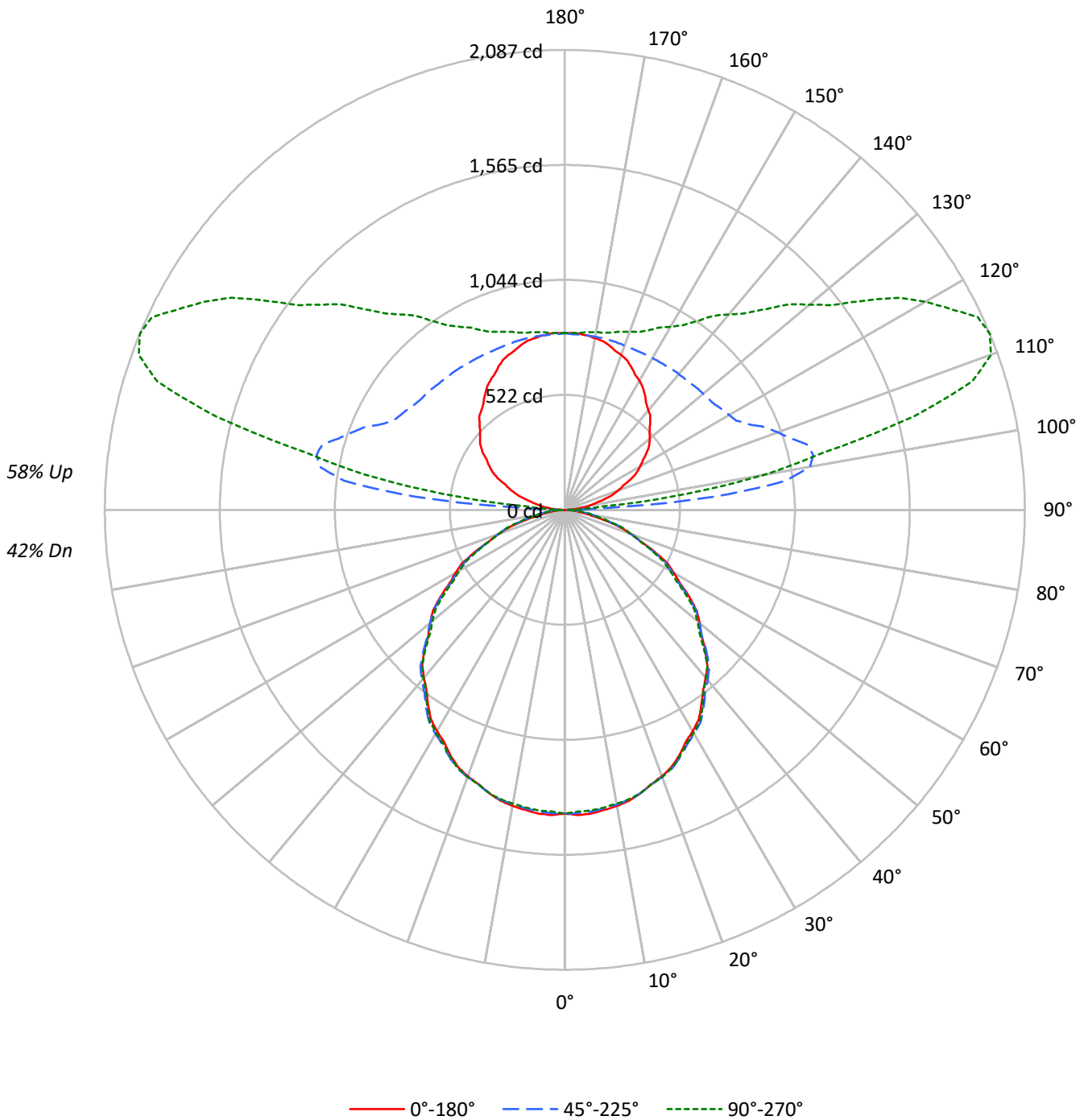
Lumens per Lamp: N/A
Luminaire Lumens: 8970.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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: P562935
CATALOG NUMBER: SQ4-PC3-100U-075D-940-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562935

CATALOG NUMBER: SQ4-PC3-100U-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	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	87	84	81	78	69	67	65	56	54	53	43	42	41	35				
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25				
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22				
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19				
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13				
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8476	8476	8476
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8420	8444	8444
25°	8339	8401	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7981	8094	8012
45°	7837	7892	7770
50°	7631	7631	7510
55°	7390	7293	7184
60°	7033	6891	6782
65°	6500	6370	6315
70°	5692	5737	5713
75°	4579	5064	5095
80°	3255	4293	4339
85°	1983	3599	3599



TEST NUMBER: P562935

CATALOG NUMBER: SQ4-PC3-100U-075D-940-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.5
10°-20°	374.3	4.2
20°-30°	566.8	6.3
30°-40°	679.5	7.6
40°-50°	692.9	7.7
50°-60°	604.8	6.7
60°-70°	433.0	4.8
70°-80°	223.0	2.5
80°-90°	58.1	0.6
90°-100°	375.4	4.2
100°-110°	1036.3	11.6
110°-120°	1068.7	11.9
120°-130°	858.8	9.6
130°-140°	674.9	7.5
140°-150°	517.7	5.8
150°-160°	372.0	4.1
160°-170°	227.5	2.5
170°-180°	76.7	0.9
0°-30°	1071.5	11.9
0°-40°	1751.0	19.5
0°-60°	3048.8	34.0
0°-90°	3762.9	41.9
90°-120°	2480.4	27.6
90°-150°	4531.8	50.5
90°-180°	5208.0	58.1
0°-180°	8970.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1383	1370	1374	1370	1369	131
15°	1331	1320	1331	1331	1330	375
25°	1229	1220	1238	1234	1234	566
35°	1081	1078	1097	1090	1090	676
45°	901	898	907	896	893	693
55°	689	680	680	670	670	614
65°	447	437	438	434	434	442
75°	193	201	213	214	214	208
85°	28	43	51	52	51	38
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: P562935

CATALOG NUMBER: SQ4-PC3-100U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1386.3	1374.3	1378.1	1375.0	1370.0
5°	1383.2	1369.5	1374.3	1370.5	1369.2
7.5°	1373.3	1359.6	1365.9	1363.3	1362.1
10°	1364.1	1350.4	1357.7	1355.1	1353.9
12.5°	1351.9	1339.1	1347.5	1345.0	1344.7
15°	1330.9	1319.7	1330.9	1330.9	1329.6
17.5°	1304.6	1294.4	1306.4	1307.2	1306.4
20°	1286.3	1275.0	1290.1	1288.8	1290.1
22.5°	1263.8	1254.6	1270.7	1267.4	1268.7
25°	1228.8	1220.1	1237.8	1233.9	1233.9
27.5°	1187.5	1181.3	1200.5	1196.4	1196.4
30°	1159.9	1153.7	1174.0	1168.9	1168.9
32.5°	1129.3	1125.1	1144.4	1138.2	1138.2
35°	1080.8	1078.3	1097.4	1089.8	1089.8
37.5°	1030.8	1028.6	1045.9	1036.6	1033.6
40°	994.0	992.8	1008.1	997.9	997.9
42.5°	957.3	956.0	969.3	957.0	957.0
45°	900.9	898.4	907.3	895.7	893.2
47.5°	839.4	836.9	842.5	829.9	828.7
50°	797.5	795.0	797.5	786.0	784.8
52.5°	754.7	750.2	750.6	739.1	738.8
55°	689.1	680.3	680.1	669.9	669.9
57.5°	619.7	608.2	609.2	600.5	599.2
60°	571.7	559.2	560.2	552.5	551.3
62.5°	524.7	510.2	513.2	504.5	504.3
65°	446.6	436.6	437.7	433.9	433.9
67.5°	371.6	362.4	369.0	366.0	365.7
70°	316.5	310.2	319.0	319.0	317.7
72.5°	265.4	265.2	276.1	276.2	276.9
75°	192.7	201.4	213.1	214.4	214.4
77.5°	128.6	144.1	157.0	157.5	157.2
80°	91.9	109.3	121.2	123.7	122.5
82.5°	62.3	80.7	90.6	93.1	91.9
85°	28.1	43.0	51.0	52.3	51.0
87.5°	8.7	18.2	22.5	22.7	20.9
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: P562935

CATALOG NUMBER: SQ4-PC3-100U-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)