

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: P562982

Luminaire Tested: **SQ4-PC3-100U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562982
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-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

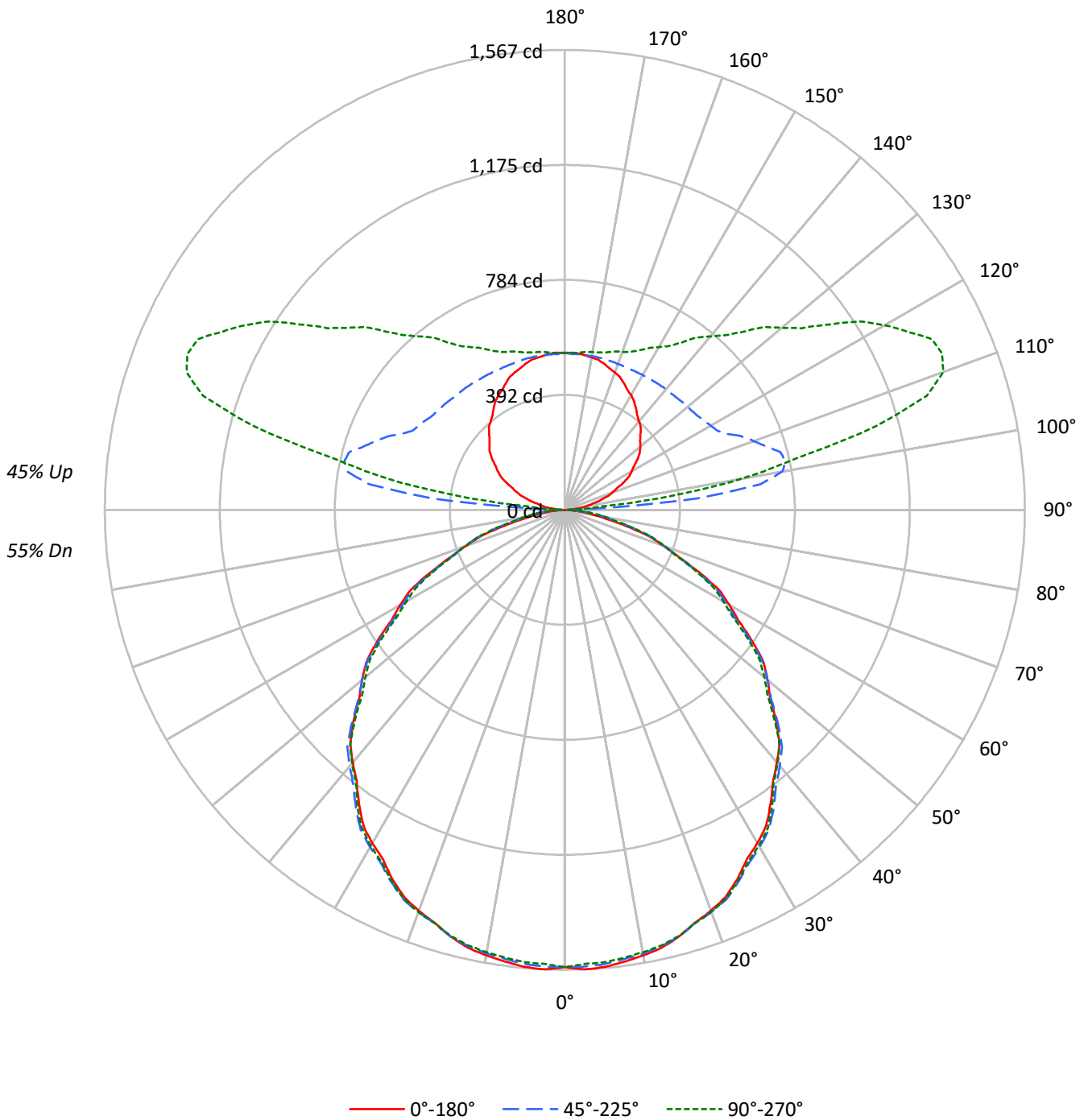
Lumens per Lamp: N/A
Luminaire Lumens: 7724.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55							
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47							
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39							
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33							
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28							
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24							
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21							
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19							
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17							
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15							
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14374	14374	14374
5°	14481	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13534	13724	13586
45°	13288	13382	13174
50°	12940	12940	12733
55°	12529	12366	12181
60°	11924	11684	11498
65°	11022	10802	10706
70°	9649	9727	9690
75°	7764	8587	8637
80°	5520	7279	7359
85°	3356	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.9
10°-20°	423.1	5.5
20°-30°	640.7	8.3
30°-40°	768.1	9.9
40°-50°	783.2	10.1
50°-60°	683.7	8.9
60°-70°	489.5	6.3
70°-80°	252.1	3.3
80°-90°	64.9	0.8
90°-100°	250.2	3.2
100°-110°	690.9	8.9
110°-120°	712.5	9.2
120°-130°	572.6	7.4
130°-140°	450.0	5.8
140°-150°	345.1	4.5
150°-160°	248.0	3.2
160°-170°	151.7	2.0
170°-180°	51.1	0.7
0°-30°	1211.2	15.7
0°-40°	1979.4	25.6
0°-60°	3446.3	44.6
0°-90°	4252.8	55.1
90°-120°	1653.6	21.4
90°-150°	3021.2	39.1
90°-180°	3472.0	44.9
0°-180°	7724.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1564	1548	1554	1549	1548	148
15°	1504	1492	1504	1504	1503	424
25°	1389	1379	1399	1395	1395	639
35°	1222	1219	1240	1232	1232	764
45°	1018	1016	1026	1012	1010	784
55°	779	769	769	757	757	694
65°	505	494	495	490	490	499
75°	218	228	241	242	242	235
85°	32	49	58	59	58	43
90°	2	3	7	8	8	4
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	

TEST NUMBER: P562982

CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.9	1557.9	1557.9	1557.9	1557.9
2.5°	1567.1	1553.5	1557.9	1554.3	1548.6
5°	1563.6	1548.1	1553.5	1549.2	1547.8
7.5°	1552.4	1536.9	1544.0	1541.1	1539.7
10°	1542.0	1526.5	1534.8	1531.9	1530.4
12.5°	1528.1	1513.7	1523.2	1520.3	1520.1
15°	1504.5	1491.8	1504.5	1504.4	1503.0
17.5°	1474.8	1463.2	1476.8	1477.6	1476.8
20°	1454.0	1441.3	1458.3	1456.9	1458.3
22.5°	1428.6	1418.2	1436.4	1432.7	1434.1
25°	1389.1	1379.2	1399.2	1394.9	1394.9
27.5°	1342.3	1335.3	1357.1	1352.4	1352.4
30°	1311.2	1304.1	1327.1	1321.3	1321.3
32.5°	1276.6	1271.8	1293.6	1286.7	1286.7
35°	1221.8	1218.9	1240.5	1231.9	1231.9
37.5°	1165.2	1162.7	1182.2	1171.8	1168.4
40°	1123.7	1122.3	1139.5	1128.0	1128.0
42.5°	1082.1	1080.7	1095.7	1081.8	1081.8
45°	1018.4	1015.6	1025.6	1012.5	1009.7
47.5°	948.8	946.0	952.3	938.1	936.7
50°	901.5	898.7	901.5	888.5	887.1
52.5°	853.1	848.0	848.5	835.5	835.2
55°	778.9	769.1	768.8	757.3	757.3
57.5°	700.5	687.5	688.6	678.8	677.4
60°	646.2	632.1	633.2	624.6	623.1
62.5°	593.1	576.8	580.2	570.3	570.1
65°	504.9	493.6	494.8	490.4	490.4
67.5°	420.0	409.6	417.2	413.7	413.4
70°	357.7	350.7	360.6	360.6	359.2
72.5°	300.0	299.7	312.1	312.2	313.0
75°	217.8	227.7	240.9	242.3	242.3
77.5°	145.4	162.9	177.4	178.0	177.7
80°	103.9	123.6	137.0	139.9	138.5
82.5°	70.4	91.3	102.4	105.3	103.9
85°	31.7	48.7	57.7	59.1	57.7
87.5°	9.6	20.1	24.4	24.6	22.5
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4

TEST NUMBER: P562982

CATALOG NUMBER: SQ4-PC3-100U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)