

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: P562598

Luminaire Tested: **SQ4-PC3-025U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562598
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

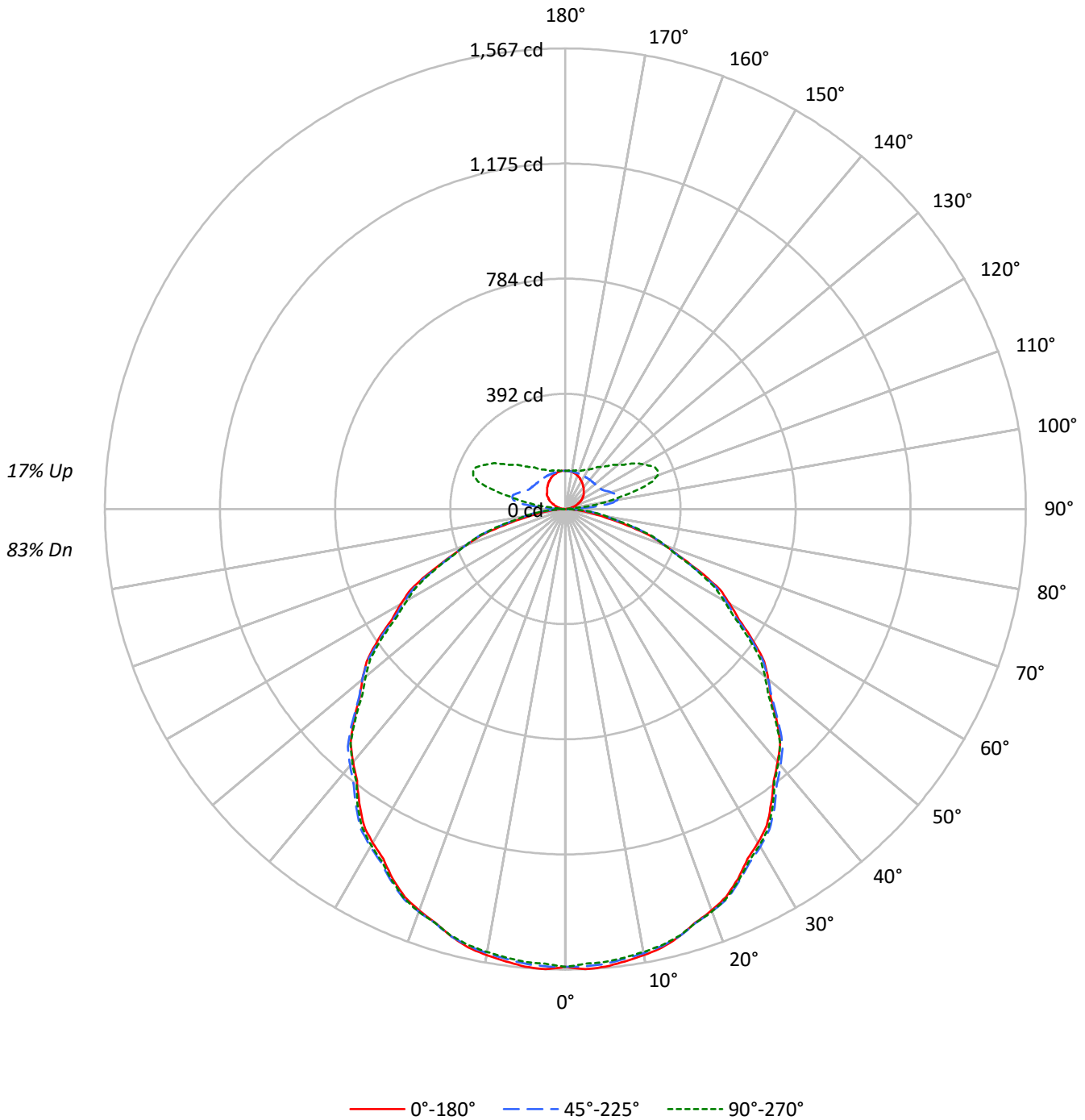
Lumens per Lamp: N/A
Luminaire Lumens: 5095.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83									83																			
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71									71																			
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59									59																			
3	88	78	70	64	84	75	68	62	69	64	59	65	60	56	60	56	53	50									50																			
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	45	43									43																			
5	74	61	53	46	71	59	51	45	55	49	43	52	46	41	48	43	40	37									37																			
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32									32																			
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29									29																			
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26									26																			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23									23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21									21																			

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	2.9
10°-20°	423.1	8.3
20°-30°	640.7	12.6
30°-40°	768.1	15.1
40°-50°	783.2	15.4
50°-60°	683.7	13.4
60°-70°	489.5	9.6
70°-80°	252.1	4.9
80°-90°	64.5	1.3
90°-100°	63.4	1.2
100°-110°	166.7	3.3
110°-120°	172.9	3.4
120°-130°	138.7	2.7
130°-140°	108.8	2.1
140°-150°	83.5	1.6
150°-160°	60.2	1.2
160°-170°	36.8	0.7
170°-180°	12.4	0.2
0°-30°	1211.2	23.8
0°-40°	1979.4	38.8
0°-60°	3446.3	67.6
0°-90°	4252.4	83.4
90°-120°	403.0	7.9
90°-150°	734.0	14.4
90°-180°	843.0	16.5
0°-180°	5095.8	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°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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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°	9.4	19.9	24.4	23.7	21.4
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)