

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: P562886

Luminaire Tested: **SQ4-PC3-0U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562886
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

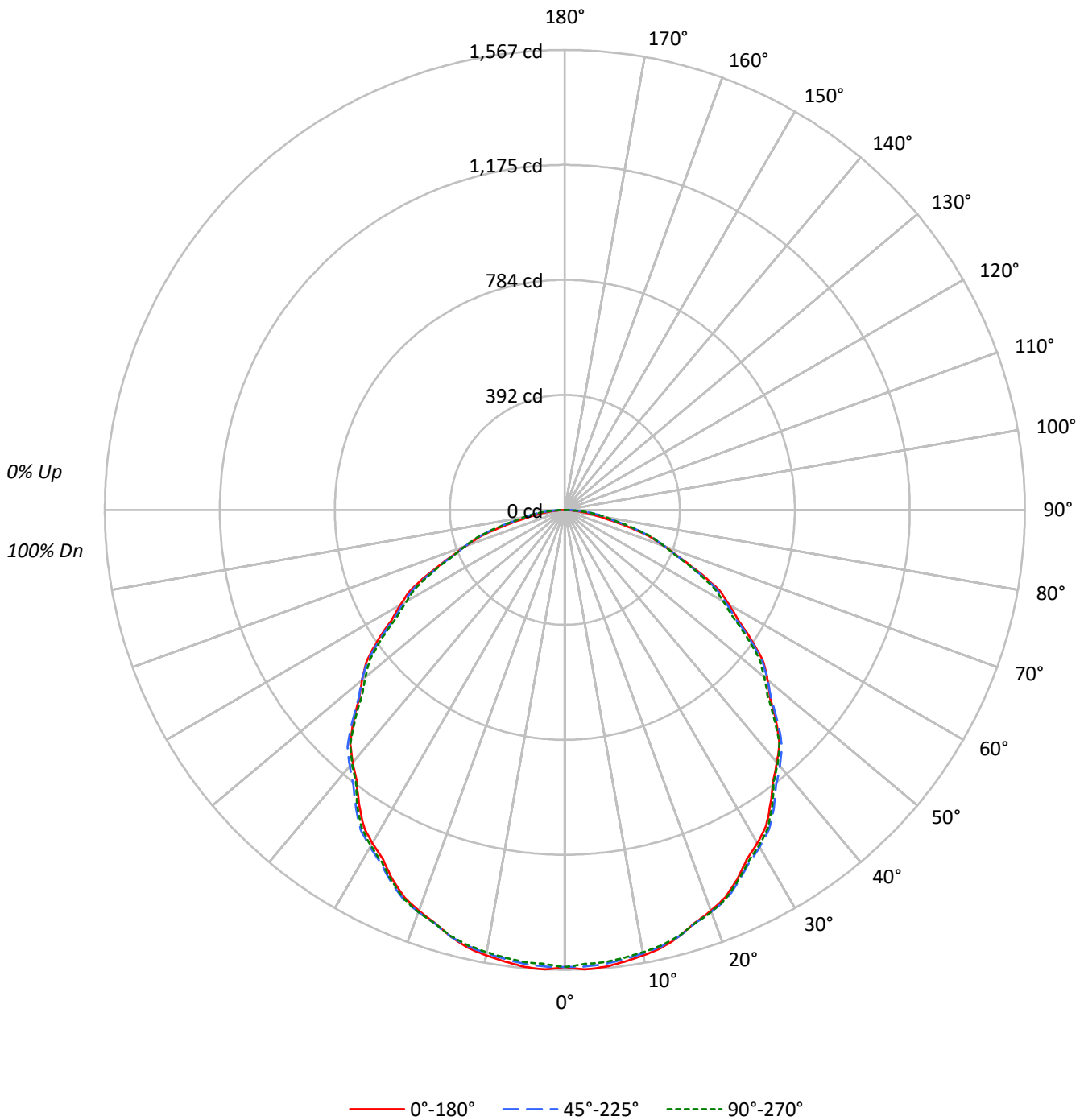
Lumens per Lamp: N/A
Luminaire Lumens: 4251.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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	3.5
10°-20°	423.1	10.0
20°-30°	640.7	15.1
30°-40°	768.1	18.1
40°-50°	783.2	18.4
50°-60°	683.7	16.1
60°-70°	489.5	11.5
70°-80°	252.1	5.9
80°-90°	63.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1211.2	28.5
0°-40°	1979.4	46.6
0°-60°	3446.3	81.1
0°-90°	4251.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4251.7	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	44
90°	0	0	0	0	0	



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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°	9.2	19.4	23.1	23.0	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)