

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: P564882

Luminaire Tested: **SQ4-PW1-0U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564882
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

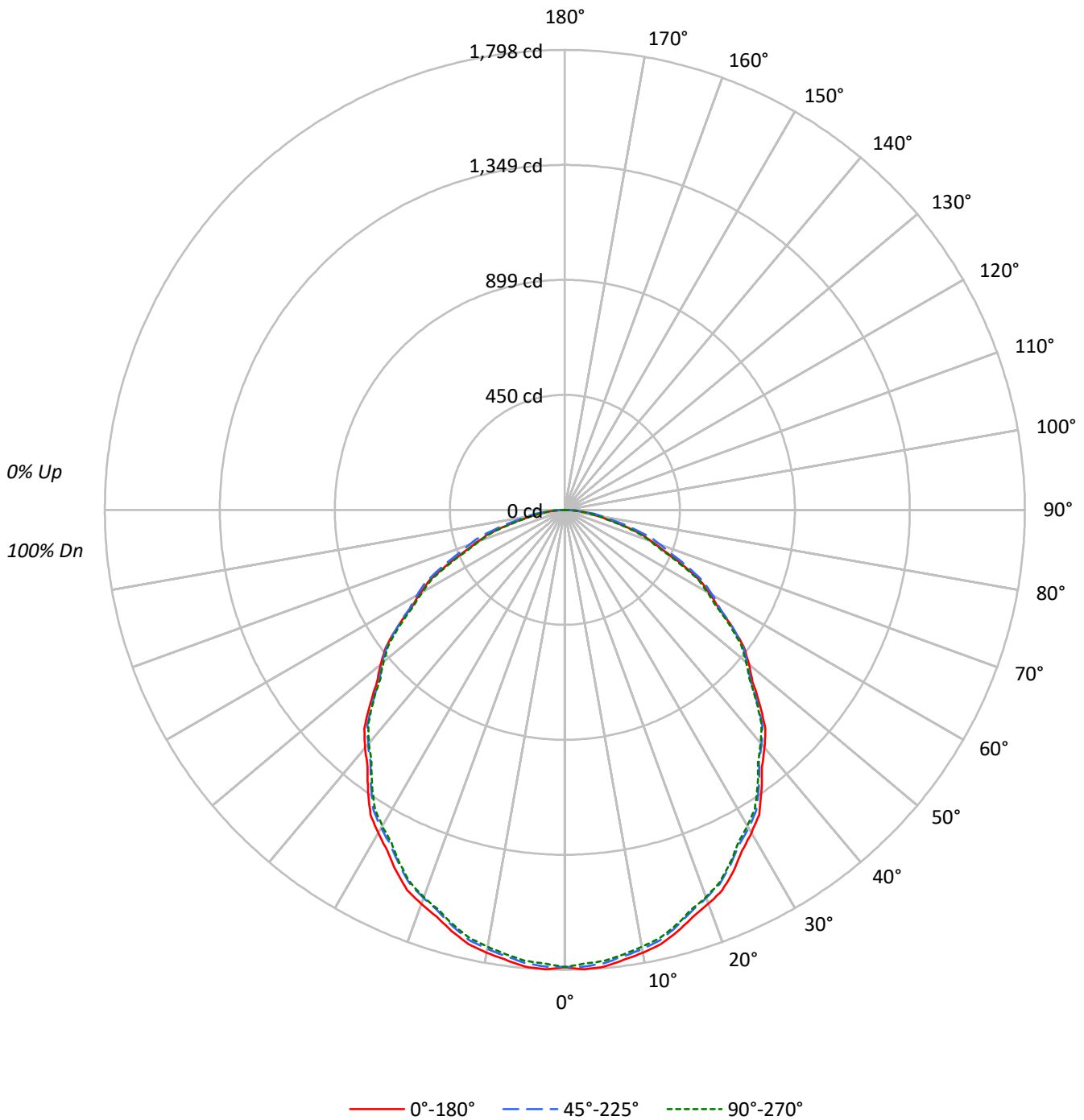
Lumens per Lamp: N/A
Luminaire Lumens: 4548.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16493	16493	16493
5°	16599	16468	16396
10°	16467	16334	16245
15°	16292	16112	16052
20°	16097	15850	15819
25°	15873	15585	15536
30°	15537	15303	15201
35°	15096	14883	14794
40°	14625	14397	14341
45°	14056	13871	13810
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11038	11588	10763
70°	9730	10663	9474
75°	8309	9543	8085
80°	6445	8033	6525
85°	4171	6172	5505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.7
10°-20°	475.2	10.4
20°-30°	704.9	15.5
30°-40°	824.9	18.1
40°-50°	821.2	18.1
50°-60°	709.1	15.6
60°-70°	510.4	11.2
70°-80°	267.7	5.9
80°-90°	66.4	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°	1348.5	29.6
0°-40°	2173.4	47.8
0°-60°	3703.6	81.4
0°-90°	4548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4548.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1792	1772	1778	1773	1770	170
15°	1706	1684	1687	1684	1680	481
25°	1559	1533	1531	1522	1526	717
35°	1340	1322	1321	1309	1314	838
45°	1077	1068	1063	1060	1058	831
55°	798	797	798	787	786	712
65°	506	521	531	510	493	501
75°	233	255	268	250	227	250
85°	39	52	58	55	52	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.6	1787.6	1787.6	1787.6	1787.6
2.5°	1797.7	1782.9	1787.6	1783.6	1775.0
5°	1792.3	1772.3	1778.1	1773.3	1770.3
7.5°	1774.0	1755.6	1759.9	1754.8	1752.9
10°	1757.7	1739.2	1743.5	1737.1	1734.0
12.5°	1738.8	1719.0	1723.3	1717.0	1715.1
15°	1705.7	1684.1	1686.8	1683.6	1680.5
17.5°	1667.3	1645.4	1645.8	1640.8	1640.2
20°	1639.5	1616.4	1614.3	1608.1	1611.2
22.5°	1609.3	1585.0	1582.8	1574.1	1578.4
25°	1559.2	1533.0	1530.9	1521.5	1526.1
27.5°	1501.3	1475.4	1475.4	1462.3	1467.2
30°	1458.4	1433.8	1436.4	1420.8	1426.9
32.5°	1413.1	1390.9	1392.3	1376.7	1382.8
35°	1340.3	1321.8	1321.4	1308.9	1313.5
37.5°	1266.0	1249.6	1247.1	1239.8	1241.1
40°	1214.3	1200.4	1195.4	1190.7	1190.7
42.5°	1160.1	1147.5	1142.5	1139.0	1137.8
45°	1077.3	1068.0	1063.1	1059.9	1058.4
47.5°	995.4	986.8	982.5	980.2	978.7
50°	938.7	932.5	930.8	926.0	924.5
52.5°	882.0	878.3	876.6	870.6	869.1
55°	798.5	797.0	798.5	787.4	785.9
57.5°	711.6	714.0	719.1	704.2	700.5
60°	653.6	659.8	666.2	648.7	642.6
62.5°	594.4	604.2	613.3	593.2	584.6
65°	505.6	521.0	530.8	509.9	493.0
67.5°	419.9	439.0	450.8	428.3	409.2
70°	360.7	382.2	395.3	372.8	351.2
72.5°	309.0	333.0	343.7	322.4	300.8
75°	233.1	254.7	267.7	249.9	226.8
77.5°	165.4	185.7	196.6	181.0	161.9
80°	121.3	142.8	151.2	138.2	122.8
82.5°	86.0	103.9	109.6	101.8	91.3
85°	39.4	51.7	58.3	55.1	52.0
87.5°	10.1	18.7	23.9	24.0	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)