

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: P564858

Luminaire Tested: **SQ4-PW1-0U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564858
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

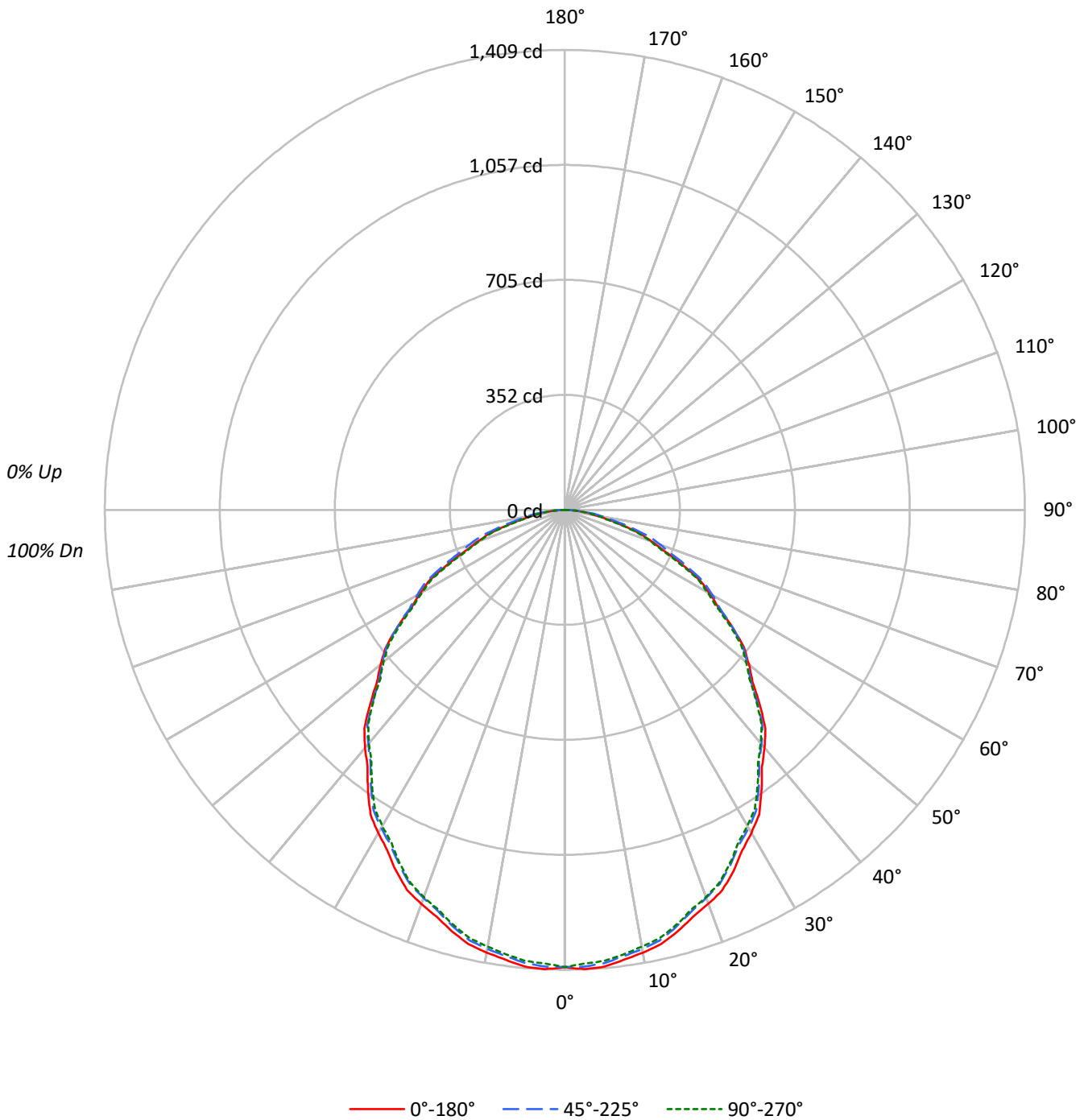
Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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: P564858
CATALOG NUMBER: SQ4-PW1-0U-100D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564858

CATALOG NUMBER: SQ4-PW1-0U-100D-830-1D-UNV-STD-W-4

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°	12924	12924	12924
5°	13008	12905	12847
10°	12903	12799	12730
15°	12767	12625	12579
20°	12615	12420	12397
25°	12438	12212	12174
30°	12175	11992	11913
35°	11830	11663	11593
40°	11460	11282	11237
45°	11015	10870	10822
50°	10558	10469	10399
55°	10065	10065	9905
60°	9451	9634	9291
65°	8649	9080	8433
70°	7623	8357	7424
75°	6513	7479	6335
80°	5048	6296	5117
85°	3271	4838	4308



TEST NUMBER: P564858

CATALOG NUMBER: SQ4-PW1-0U-100D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.7
10°-20°	372.4	10.4
20°-30°	552.4	15.5
30°-40°	646.4	18.1
40°-50°	643.5	18.1
50°-60°	555.7	15.6
60°-70°	400.0	11.2
70°-80°	209.7	5.9
80°-90°	52.0	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°	1056.7	29.6
0°-40°	1703.1	47.8
0°-60°	2902.2	81.4
0°-90°	3564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1404	1389	1393	1390	1387	133
15°	1337	1320	1322	1319	1317	377
25°	1222	1201	1200	1192	1196	562
35°	1050	1036	1036	1026	1029	657
45°	844	837	833	831	829	651
55°	626	624	626	617	616	558
65°	396	408	416	400	386	393
75°	183	200	210	196	178	196
85°	31	40	46	43	41	42
90°	0	0	0	0	0	



TEST NUMBER: P564858

CATALOG NUMBER: SQ4-PW1-0U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1408.7	1397.1	1400.8	1397.7	1390.9
5°	1404.5	1388.8	1393.4	1389.6	1387.2
7.5°	1390.2	1375.7	1379.1	1375.1	1373.6
10°	1377.3	1362.8	1366.2	1361.2	1358.8
12.5°	1362.5	1347.1	1350.4	1345.5	1344.0
15°	1336.6	1319.7	1321.8	1319.3	1316.9
17.5°	1306.5	1289.4	1289.7	1285.7	1285.3
20°	1284.8	1266.7	1265.0	1260.1	1262.6
22.5°	1261.1	1242.0	1240.3	1233.5	1236.9
25°	1221.8	1201.3	1199.6	1192.3	1195.9
27.5°	1176.4	1156.1	1156.2	1145.9	1149.7
30°	1142.8	1123.5	1125.6	1113.3	1118.2
32.5°	1107.3	1089.9	1091.0	1078.8	1083.6
35°	1050.3	1035.8	1035.5	1025.7	1029.3
37.5°	992.0	979.2	977.2	971.6	972.5
40°	951.5	940.7	936.7	933.0	933.0
42.5°	909.1	899.2	895.3	892.5	891.6
45°	844.2	836.9	833.1	830.6	829.4
47.5°	780.0	773.2	769.9	768.1	766.9
50°	735.6	730.7	729.4	725.7	724.5
52.5°	691.1	688.2	686.9	682.2	681.0
55°	625.7	624.5	625.7	617.1	615.8
57.5°	557.6	559.5	563.5	551.9	549.0
60°	512.2	517.0	522.1	508.4	503.5
62.5°	465.8	473.5	480.6	464.9	458.1
65°	396.2	408.2	415.9	399.6	386.3
67.5°	329.0	344.0	353.2	335.6	320.6
70°	282.6	299.5	309.8	292.1	275.2
72.5°	242.1	261.0	269.3	252.6	235.7
75°	182.7	199.6	209.8	195.8	177.7
77.5°	129.6	145.5	154.0	141.8	126.9
80°	95.0	111.9	118.5	108.3	96.3
82.5°	67.4	81.4	85.9	79.8	71.6
85°	30.9	40.5	45.7	43.1	40.7
87.5°	7.9	14.7	18.8	18.8	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)