

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: P564851

Luminaire Tested: **SQ4-PW1-0U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564851
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-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

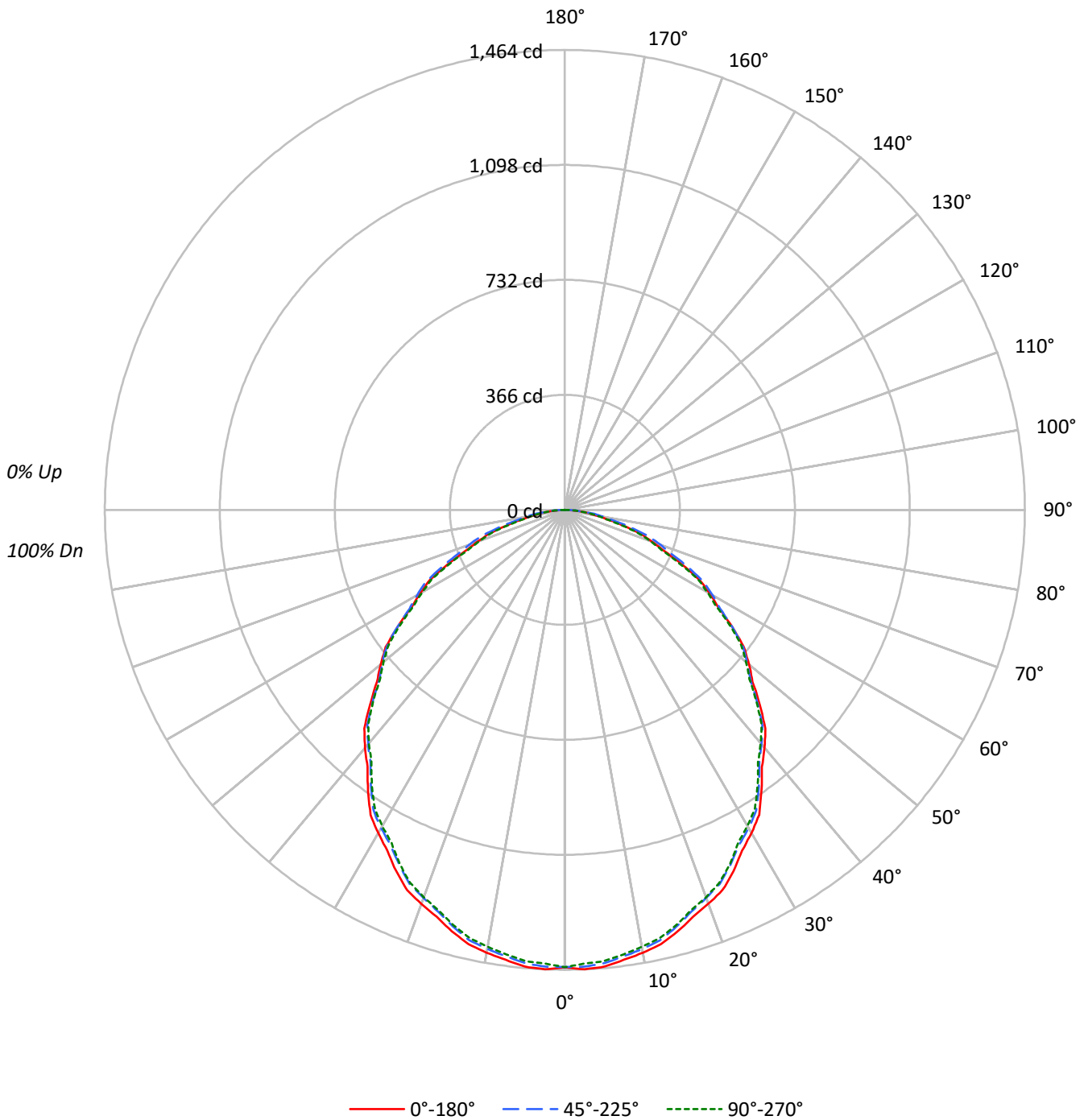
Lumens per Lamp: N/A
Luminaire Lumens: 3703.7 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	8954	8954	8954
5°	9012	8940	8901
10°	8939	8868	8820
15°	8845	8747	8714
20°	8740	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7530	7497
50°	7315	7253	7204
55°	6974	6974	6863
60°	6548	6674	6437
65°	5992	6290	5842
70°	5282	5789	5143
75°	4511	5181	4389
80°	3500	4360	3542
85°	2265	3352	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.7
10°-20°	387.0	10.4
20°-30°	574.1	15.5
30°-40°	671.7	18.1
40°-50°	668.7	18.1
50°-60°	577.5	15.6
60°-70°	415.7	11.2
70°-80°	218.0	5.9
80°-90°	54.0	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°	1098.1	29.6
0°-40°	1769.9	47.8
0°-60°	3016.0	81.4
0°-90°	3703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1460	1443	1448	1444	1442	138
15°	1389	1372	1374	1371	1368	392
25°	1270	1248	1247	1239	1243	584
35°	1092	1076	1076	1066	1070	682
45°	877	870	866	863	862	677
55°	650	649	650	641	640	580
65°	412	424	432	415	401	408
75°	190	207	218	204	185	203
85°	32	42	48	45	42	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1463.9	1451.9	1455.7	1452.5	1445.5
5°	1459.6	1443.3	1448.0	1444.1	1441.6
7.5°	1444.7	1429.6	1433.1	1429.0	1427.5
10°	1431.3	1416.3	1419.8	1414.6	1412.1
12.5°	1416.0	1399.9	1403.4	1398.2	1396.7
15°	1389.0	1371.5	1373.6	1371.0	1368.5
17.5°	1357.7	1339.9	1340.3	1336.2	1335.7
20°	1335.2	1316.3	1314.6	1309.6	1312.1
22.5°	1310.5	1290.7	1289.0	1281.9	1285.4
25°	1269.7	1248.4	1246.7	1239.0	1242.8
27.5°	1222.5	1201.5	1201.5	1190.8	1194.8
30°	1187.7	1167.6	1169.7	1157.0	1162.0
32.5°	1150.7	1132.7	1133.8	1121.1	1126.1
35°	1091.5	1076.4	1076.1	1065.9	1069.7
37.5°	1030.9	1017.6	1015.5	1009.7	1010.7
40°	988.9	977.6	973.5	969.6	969.6
42.5°	944.7	934.5	930.4	927.5	926.5
45°	877.3	869.8	865.7	863.1	861.9
47.5°	810.6	803.6	800.1	798.2	797.0
50°	764.4	759.4	758.0	754.1	752.9
52.5°	718.2	715.2	713.9	709.0	707.7
55°	650.3	649.0	650.3	641.3	640.0
57.5°	579.5	581.5	585.6	573.5	570.5
60°	532.3	537.3	542.5	528.3	523.3
62.5°	484.0	492.1	499.4	483.1	476.1
65°	411.7	424.2	432.2	415.2	401.4
67.5°	341.9	357.5	367.1	348.8	333.2
70°	293.7	311.3	321.9	303.6	286.0
72.5°	251.6	271.2	279.9	262.5	245.0
75°	189.8	207.4	218.0	203.5	184.7
77.5°	134.7	151.2	160.1	147.4	131.8
80°	98.8	116.3	123.1	112.6	100.0
82.5°	70.0	84.6	89.3	82.9	74.4
85°	32.1	42.1	47.5	44.8	42.3
87.5°	8.2	15.2	19.5	19.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)