

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

Brand: CORELITE

Report Number: P855511

Luminaire Tested: SQ2-PP3-075D-830-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P855511
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-PP3-075D-830-UNV-STD-W-4
Description: CORELITE SQ2 SURFACE LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

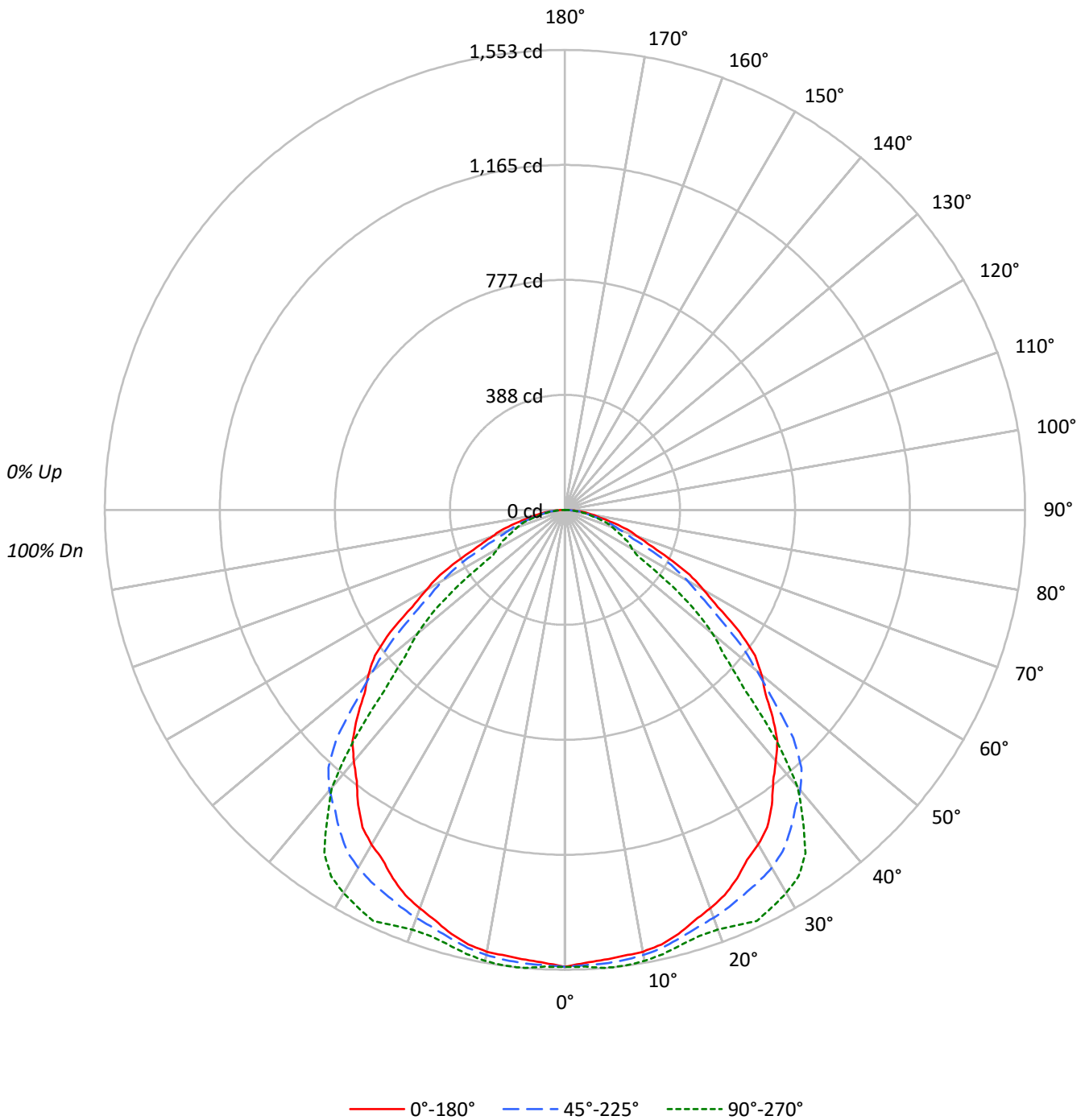
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3885.8 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87				
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64				
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43				
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24913	24913	24913
5°	24716	24929	25165
10°	24843	25030	25351
15°	24782	25028	25409
20°	24606	25194	25923
25°	24467	25513	27285
30°	24328	26028	27854
35°	23984	26104	27906
40°	23343	26059	25781
45°	22644	24877	19626
50°	21755	21223	16347
55°	20248	17861	11752
60°	17434	15326	8428
65°	14705	11840	8290
70°	12246	9319	7931
75°	10374	8041	7430
80°	8796	6983	6676
85°	6947	5743	3631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 24877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.8
10°-20°	425.2	10.9
20°-30°	666.1	17.1
30°-40°	821.8	21.1
40°-50°	773.7	19.9
50°-60°	547.8	14.1
60°-70°	312.1	8.0
70°-80°	154.4	4.0
80°-90°	37.8	1.0
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°	1238.3	31.9
0°-40°	2060.0	53.0
0°-60°	3381.5	87.0
0°-90°	3885.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1525	1552	1538	1542	1553	145
15°	1483	1503	1497	1512	1520	418
25°	1373	1408	1432	1490	1532	633
35°	1217	1250	1324	1400	1416	759
45°	992	1067	1090	923	860	763
55°	719	762	634	478	418	635
65°	385	406	310	219	217	387
75°	166	184	129	121	119	180
85°	38	34	31	24	20	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1531.2	1552.9	1539.0	1541.7	1544.2
5°	1525.0	1552.1	1538.1	1541.6	1552.7
7.5°	1519.1	1546.9	1533.2	1539.0	1552.7
10°	1515.3	1539.1	1526.7	1535.1	1546.3
12.5°	1503.5	1526.1	1514.9	1525.9	1535.8
15°	1482.6	1503.3	1497.3	1512.1	1520.1
17.5°	1454.2	1479.4	1479.3	1500.5	1508.7
20°	1432.1	1462.4	1466.3	1492.8	1508.7
22.5°	1408.6	1443.9	1450.6	1490.4	1517.9
25°	1373.4	1408.4	1432.1	1490.1	1531.6
27.5°	1332.2	1366.9	1415.8	1480.8	1513.6
30°	1304.9	1338.3	1396.1	1463.7	1494.0
32.5°	1271.0	1305.7	1367.5	1440.2	1467.9
35°	1216.8	1250.3	1324.4	1399.8	1415.8
37.5°	1154.5	1192.4	1275.5	1317.5	1318.6
40°	1107.5	1156.9	1236.4	1244.0	1223.2
42.5°	1061.8	1125.3	1181.5	1147.2	1055.0
45°	991.7	1066.6	1089.5	923.4	859.5
47.5°	917.0	991.0	954.5	774.4	730.4
50°	866.1	936.3	844.9	692.3	650.8
52.5°	808.6	871.2	747.0	613.5	550.3
55°	719.3	762.4	634.5	478.1	417.5
57.5°	611.7	642.0	542.5	358.9	291.0
60°	539.9	563.9	474.6	294.4	261.0
62.5°	474.6	496.0	404.2	255.8	244.0
65°	384.9	405.7	309.9	218.6	217.0
67.5°	306.3	328.9	237.8	190.7	188.9
70°	259.4	283.2	197.4	171.2	168.0
72.5°	220.1	242.9	167.3	150.4	148.5
75°	166.3	184.0	128.9	120.6	119.1
77.5°	120.8	131.8	95.9	91.6	90.0
80°	94.6	99.4	75.1	73.4	71.8
82.5°	71.1	69.5	56.8	55.1	52.2
85°	37.5	34.4	31.0	24.3	19.6
87.5°	11.8	11.8	5.2	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	22.61	24.14	22.98	24.45	24.76	19.01	20.53	19.37	20.84	21.16
	3H	23.76	25.12	24.14	25.45	25.81	20.16	21.53	20.54	21.85	22.21
	4H	24.13	25.41	24.53	25.76	26.13	20.66	21.93	21.06	22.28	22.66
	6H	24.38	25.56	24.79	25.92	26.31	21.03	22.21	21.45	22.58	22.97
	8H	24.44	25.57	24.87	25.96	26.36	21.14	22.26	21.56	22.65	23.05
	12H	24.48	25.55	24.91	25.93	26.36	21.17	22.24	21.60	22.63	23.06
4H	2H	22.80	24.08	23.20	24.43	24.80	19.80	21.08	20.20	21.43	21.81
	3H	24.17	25.22	24.58	25.62	26.03	21.11	22.17	21.52	22.57	22.97
	4H	24.67	25.62	25.10	26.03	26.47	21.69	22.64	22.13	23.06	23.49
	6H	25.04	25.86	25.50	26.31	26.77	22.17	22.99	22.62	23.43	23.89
	8H	25.15	25.91	25.61	26.36	26.83	22.30	23.07	22.76	23.51	23.98
	12H	25.21	25.90	25.69	26.38	26.85	22.36	23.04	22.84	23.52	23.99
8H	4H	24.73	25.50	25.20	25.95	26.41	22.01	22.78	22.48	23.22	23.69
	6H	25.19	25.82	25.68	26.31	26.79	22.58	23.21	23.08	23.71	24.18
	8H	25.34	25.92	25.86	26.43	26.91	22.77	23.34	23.28	23.85	24.34
	12H	25.46	25.96	25.97	26.46	27.02	22.87	23.37	23.38	23.87	24.43
12H	4H	24.72	25.41	25.20	25.89	26.36	22.05	22.73	22.53	23.21	23.68
	6H	25.17	25.75	25.69	26.26	26.75	22.63	23.20	23.15	23.71	24.20
	8H	25.37	25.88	25.88	26.37	26.94	22.87	23.38	23.38	23.87	24.43