

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: P845527

Luminaire Tested: SQ2R-FB-075D-935-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-FB-075D-935-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, BATWING LENS
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

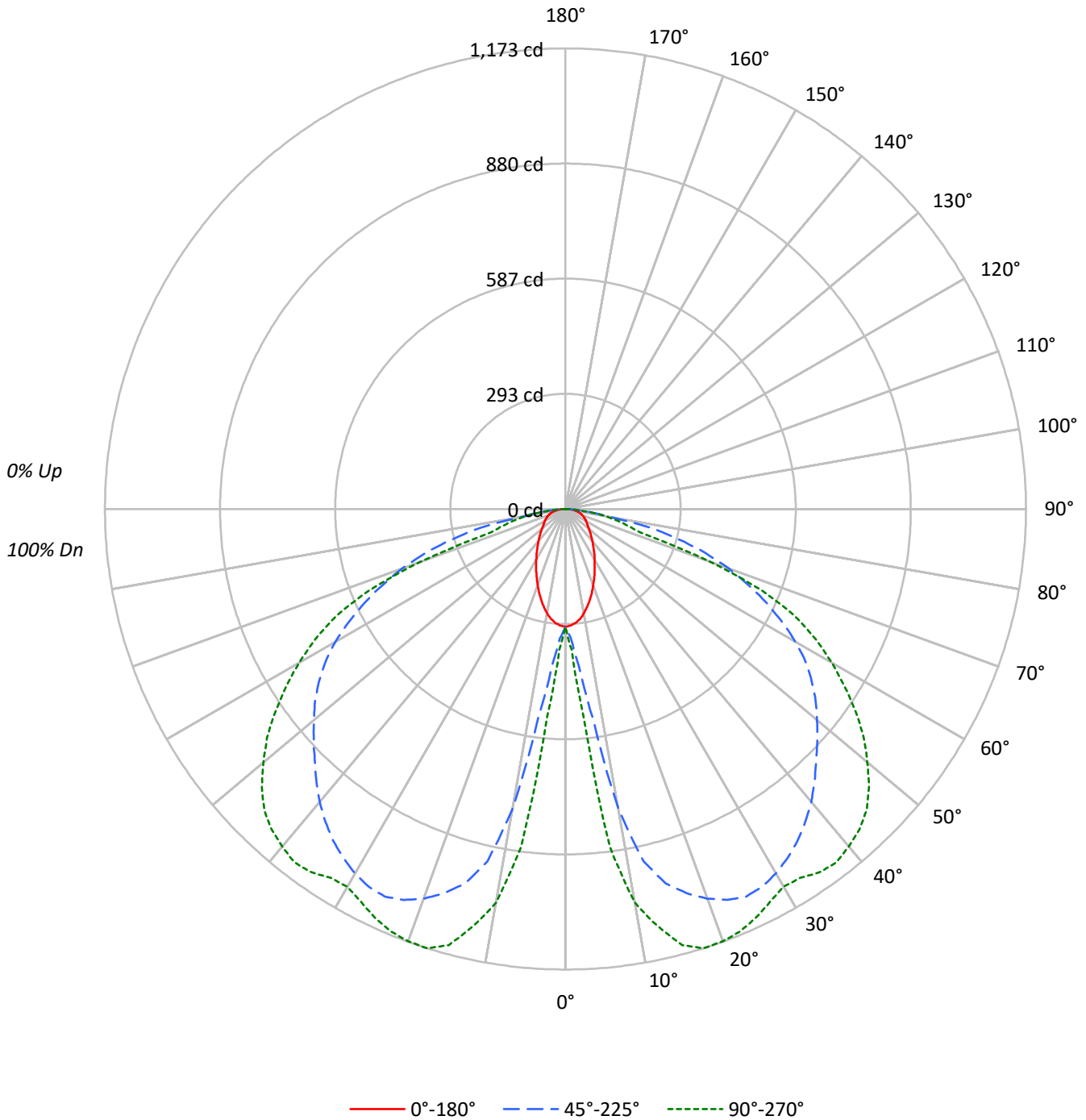
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 2.99 / 2.56
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									
RC	80									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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57																			
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31																			
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27																			
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24																			
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4845	4845	4845
5°	4723	6546	8580
10°	4423	12677	16698
15°	4003	16493	19218
20°	3545	18144	20127
25°	3135	19402	20457
30°	2770	19982	20709
35°	2474	20329	22263
40°	2251	20523	23655
45°	2076	20621	24770
50°	1957	21017	25219
55°	1909	21562	25422
60°	1957	21849	25294
65°	2040	21547	24581
70°	2110	20837	18590
75°	2339	18721	10262
80°	2417	9661	9521
85°	2408	6688	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 55°
 Luminance: 25422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.7
10°-20°	230.3	7.8
20°-30°	405.4	13.6
30°-40°	524.4	17.6
40°-50°	578.4	19.5
50°-60°	539.5	18.2
60°-70°	417.5	14.1
70°-80°	190.8	6.4
80°-90°	35.7	1.2
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°	685.2	23.1
0°-40°	1209.5	40.7
0°-60°	2327.4	78.3
0°-90°	2971.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2971.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	300	300	300	300	300	
5°	291	335	404	492	529	27
15°	240	478	987	1104	1150	67
25°	176	645	1089	1137	1148	81
35°	126	623	1031	1066	1130	79
45°	91	478	903	1036	1085	70
55°	68	284	766	880	903	61
65°	53	160	564	632	643	52
75°	38	98	300	162	164	39
85°	13	29	36	24	22	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	300.1	300.1	300.1	300.1	300.1
2.5°	297.2	313.0	330.4	350.5	359.2
5°	291.4	334.7	403.9	491.9	529.4
7.5°	282.7	362.1	541.0	784.8	868.4
10°	269.8	392.4	773.2	978.1	1018.5
12.5°	255.3	432.8	918.9	1047.3	1089.1
15°	239.5	477.5	986.7	1103.6	1149.7
17.5°	223.6	526.5	1025.7	1145.4	1172.8
20°	206.3	578.5	1056.0	1155.5	1171.4
22.5°	190.4	617.4	1077.6	1146.9	1164.2
25°	176.0	644.8	1089.1	1136.8	1148.3
27.5°	161.6	654.9	1084.8	1118.0	1128.1
30°	148.6	652.0	1071.8	1094.9	1110.8
32.5°	137.0	643.4	1053.1	1074.7	1113.7
35°	125.5	623.2	1031.4	1066.1	1129.5
37.5°	115.4	594.3	1004.0	1070.4	1133.9
40°	106.8	561.2	973.7	1070.4	1122.3
42.5°	98.1	522.2	939.1	1056.0	1107.9
45°	90.9	477.5	903.1	1035.8	1084.8
47.5°	83.7	428.4	869.9	1011.2	1048.8
50°	77.9	378.0	836.7	975.2	1004.0
52.5°	72.1	328.9	803.5	931.9	957.9
55°	67.8	284.2	766.0	880.0	903.1
57.5°	63.5	243.8	725.6	825.2	843.9
60°	60.6	212.1	676.6	764.6	783.3
62.5°	56.3	183.2	621.8	701.1	718.4
65°	53.4	160.1	564.0	631.8	643.4
67.5°	49.0	141.4	503.5	552.5	541.0
70°	44.7	128.4	441.4	455.9	393.8
72.5°	41.8	114.0	373.6	330.4	199.1
75°	37.5	98.1	300.1	161.6	164.5
77.5°	31.7	79.3	220.7	129.8	132.7
80°	26.0	62.0	103.9	101.0	102.4
82.5°	20.2	44.7	63.5	67.8	64.9
85°	13.0	28.9	36.1	24.5	21.6
87.5°	5.8	13.0	7.2	7.2	7.2
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	16.38	18.06	16.74	18.38	18.69	25.03	26.72	25.40	27.03	27.35
	3H	17.17	18.69	17.54	19.02	19.38	26.72	28.24	27.09	28.57	28.93
	4H	17.50	18.94	17.90	19.28	19.66	26.93	28.37	27.33	28.72	29.09
	6H	17.76	19.09	18.17	19.45	19.84	27.06	28.39	27.47	28.76	29.15
	8H	17.84	19.11	18.26	19.50	19.89	27.09	28.36	27.51	28.75	29.15
	12H	17.89	19.11	18.32	19.49	19.92	27.09	28.31	27.52	28.69	29.12
4H	2H	20.81	22.25	21.21	22.60	22.97	25.57	27.01	25.97	27.35	27.73
	3H	21.83	23.03	22.24	23.42	23.82	27.48	28.68	27.89	29.07	29.47
	4H	22.15	23.23	22.58	23.65	24.08	27.75	28.83	28.18	29.25	29.68
	6H	22.33	23.28	22.78	23.72	24.17	27.94	28.89	28.40	29.33	29.78
	8H	22.37	23.26	22.83	23.70	24.16	27.99	28.87	28.45	29.32	29.78
	12H	22.41	23.20	22.89	23.67	24.14	28.00	28.80	28.48	29.27	29.74
8H	4H	23.39	24.27	23.85	24.71	25.18	27.94	28.82	28.40	29.26	29.73
	6H	23.66	24.40	24.16	24.88	25.36	28.18	28.91	28.67	29.40	29.88
	8H	23.75	24.40	24.26	24.91	25.39	28.25	28.91	28.76	29.41	29.90
	12H	23.81	24.39	24.32	24.88	25.44	28.29	28.86	28.79	29.35	29.91
12H	4H	23.44	24.24	23.92	24.71	25.18	27.93	28.72	28.41	29.20	29.67
	6H	23.77	24.42	24.28	24.93	25.41	28.17	28.83	28.68	29.34	29.82
	8H	23.91	24.49	24.42	24.98	25.54	28.28	28.86	28.79	29.35	29.91