

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: P845526

Luminaire Tested: SQ2R-FB-075D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845526
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-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, BATWING LENS
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

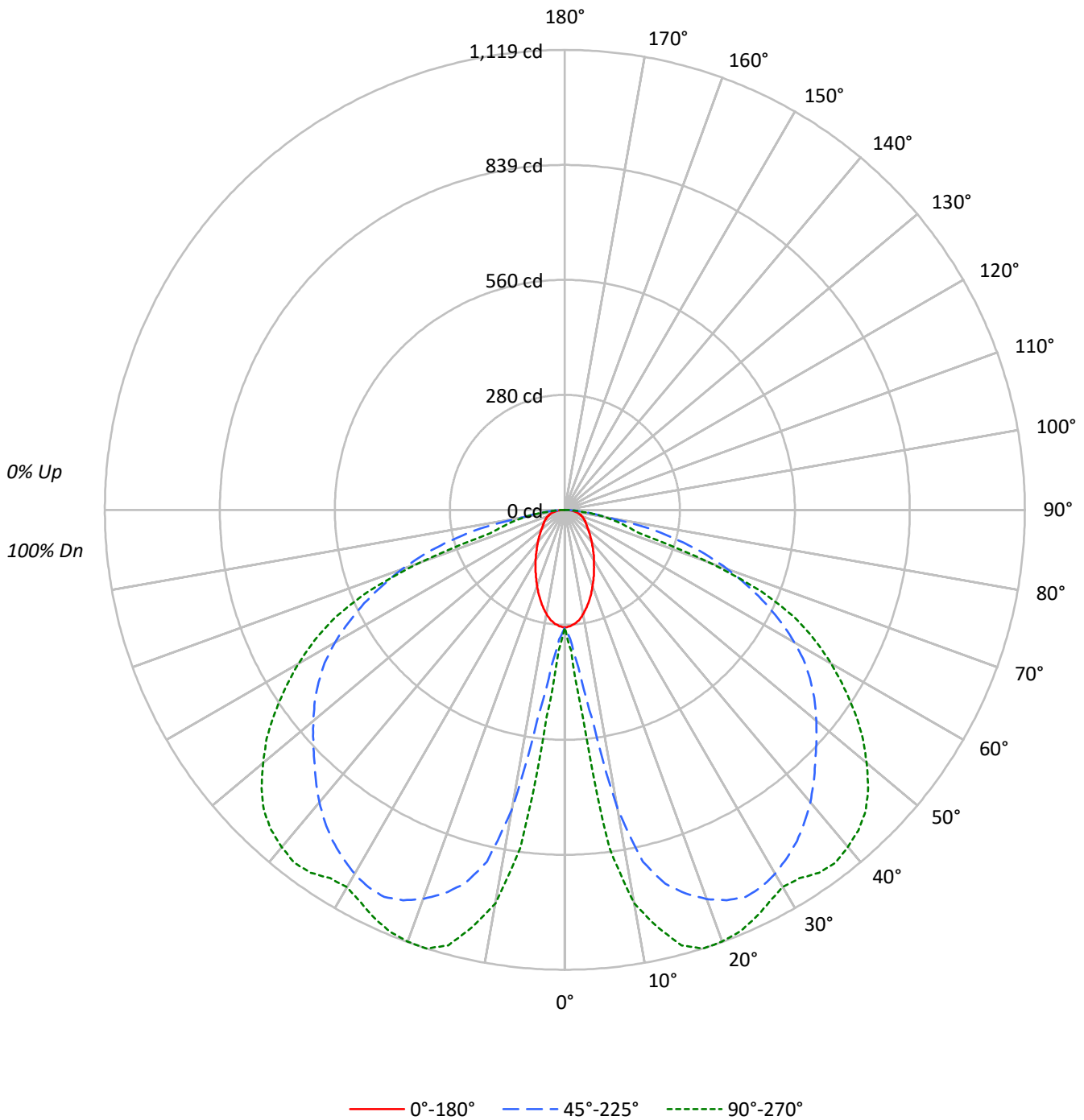
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2835.3 lumens
Efficiency: N/A
Efficacy: 106.2 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					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				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69				69
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57				57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31				31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27				27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				24
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4623	4623	4623
5°	4507	6246	8188
10°	4220	12096	15933
15°	3819	15738	18338
20°	3381	17313	19204
25°	2991	18515	19520
30°	2644	19069	19760
35°	2361	19399	21244
40°	2148	19585	22571
45°	1980	19676	23635
50°	1866	20055	24066
55°	1821	20574	24256
60°	1866	20848	24138
65°	1945	20562	23454
70°	2016	19884	17740
75°	2233	17860	9788
80°	2306	9214	9084
85°	2297	6373	3816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 55°
 Luminance: 24256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	1.7
10°-20°	219.8	7.8
20°-30°	386.9	13.6
30°-40°	500.4	17.6
40°-50°	551.9	19.5
50°-60°	514.8	18.2
60°-70°	398.4	14.1
70°-80°	182.1	6.4
80°-90°	34.0	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°	653.8	23.1
0°-40°	1154.1	40.7
0°-60°	2220.8	78.3
0°-90°	2835.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	286	286	286	286	286	
5°	278	319	385	469	505	26
15°	228	456	942	1053	1097	64
25°	168	615	1039	1085	1096	77
35°	120	595	984	1017	1078	75
45°	87	456	862	988	1035	67
55°	65	271	731	840	862	58
65°	51	153	538	603	614	50
75°	36	94	286	154	157	37
85°	12	28	34	23	21	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	286.3	286.3	286.3	286.3	286.3
2.5°	283.6	298.7	315.2	334.5	342.8
5°	278.1	319.4	385.4	469.4	505.2
7.5°	269.8	345.5	516.2	748.8	828.7
10°	257.4	374.4	737.8	933.3	971.8
12.5°	243.6	413.0	876.8	999.4	1039.3
15°	228.5	455.6	941.5	1053.0	1097.1
17.5°	213.4	502.4	978.7	1093.0	1119.1
20°	196.8	552.0	1007.6	1102.6	1117.7
22.5°	181.7	589.2	1028.3	1094.3	1110.9
25°	167.9	615.3	1039.3	1084.7	1095.7
27.5°	154.2	624.9	1035.1	1066.8	1076.4
30°	141.8	622.2	1022.8	1044.8	1059.9
32.5°	130.8	613.9	1004.9	1025.5	1062.7
35°	119.8	594.7	984.2	1017.2	1077.8
37.5°	110.1	567.1	958.1	1021.4	1081.9
40°	101.9	535.5	929.2	1021.4	1070.9
42.5°	93.6	498.3	896.1	1007.6	1057.2
45°	86.7	455.6	861.7	988.3	1035.1
47.5°	79.8	408.8	830.0	964.9	1000.7
50°	74.3	360.6	798.4	930.5	958.1
52.5°	68.8	313.8	766.7	889.2	914.0
55°	64.7	271.2	730.9	839.7	861.7
57.5°	60.6	232.6	692.4	787.4	805.3
60°	57.8	202.3	645.6	729.6	747.5
62.5°	53.7	174.8	593.3	669.0	685.5
65°	50.9	152.8	538.2	602.9	613.9
67.5°	46.8	134.9	480.4	527.2	516.2
70°	42.7	122.5	421.2	435.0	375.8
72.5°	39.9	108.7	356.5	315.2	190.0
75°	35.8	93.6	286.3	154.2	156.9
77.5°	30.3	75.7	210.6	123.9	126.6
80°	24.8	59.2	99.1	96.4	97.7
82.5°	19.3	42.7	60.6	64.7	61.9
85°	12.4	27.5	34.4	23.4	20.6
87.5°	5.5	12.4	6.9	6.9	6.9
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	16.21	17.90	16.58	18.21	18.53	24.87	26.55	25.23	26.87	27.18
	3H	17.00	18.53	17.38	18.85	19.21	26.55	28.08	26.93	28.40	28.76
	4H	17.34	18.77	17.74	19.12	19.49	26.77	28.21	27.17	28.55	28.93
	6H	17.59	18.92	18.00	19.29	19.68	26.90	28.23	27.31	28.59	28.98
	8H	17.67	18.94	18.10	19.33	19.73	26.93	28.20	27.35	28.59	28.98
	12H	17.73	18.95	18.16	19.33	19.76	26.93	28.14	27.35	28.52	28.95
4H	2H	20.65	22.09	21.05	22.43	22.81	25.41	26.84	25.81	27.19	27.56
	3H	21.66	22.87	22.07	23.26	23.66	27.31	28.51	27.72	28.91	29.31
	4H	21.99	23.07	22.42	23.48	23.92	27.59	28.67	28.02	29.08	29.52
	6H	22.17	23.11	22.62	23.55	24.01	27.78	28.73	28.23	29.17	29.62
	8H	22.21	23.09	22.67	23.54	24.00	27.83	28.71	28.29	29.15	29.62
	12H	22.24	23.04	22.72	23.51	23.98	27.84	28.63	28.32	29.11	29.58
8H	4H	23.22	24.11	23.68	24.55	25.01	27.78	28.66	28.23	29.10	29.56
	6H	23.50	24.23	23.99	24.72	25.20	28.02	28.75	28.51	29.24	29.71
	8H	23.58	24.24	24.09	24.75	25.23	28.09	28.75	28.60	29.25	29.74
	12H	23.65	24.23	24.16	24.72	25.28	28.12	28.70	28.63	29.19	29.75
12H	4H	23.28	24.07	23.76	24.55	25.02	27.77	28.56	28.25	29.04	29.50
	6H	23.60	24.26	24.11	24.77	25.25	28.01	28.67	28.52	29.17	29.66
	8H	23.75	24.33	24.26	24.82	25.38	28.12	28.70	28.62	29.19	29.75