

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1055078

Luminaire Tested: SQ4R-FB-075D-830-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-892-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-FB-075D-830-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH BATWING FROSTED CONTINUOUS ROLL LEN
750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

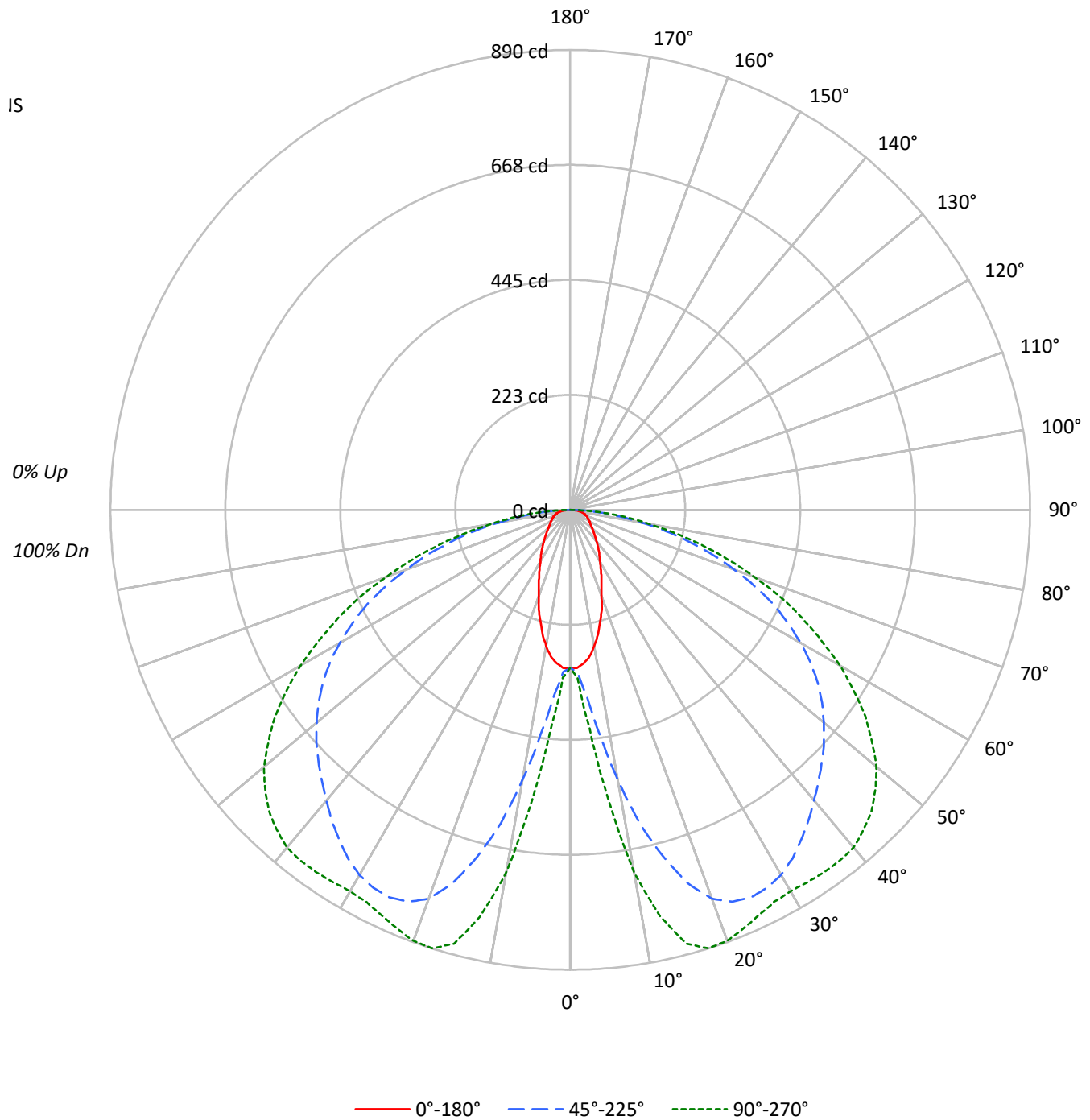
Lumens per Lamp: N/A
Luminaire Lumens: 2367.7 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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: P1055078

CATALOG NUMBER: SQ4R-FB-075D-830-1-UNV-STD-W-4

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82		
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67		
3	88	77	68	61	86	75	67	61	72	65	60	69	63	58	67	62	57	55		
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46		
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39		
6	67	53	44	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34		
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29		
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	32	28	26		
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23		
10	50	36	28	23	49	36	28	23	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2947	2947	2947
5°	2882	3481	4080
10°	2617	5185	6965
15°	2227	6925	8661
20°	1814	8207	9095
25°	1516	8791	9189
30°	1280	9069	9474
35°	1133	9160	10063
40°	989	9226	10723
45°	897	9379	11228
50°	825	9596	11585
55°	792	9812	11711
60°	814	9910	11616
65°	852	9887	11276
70°	915	9475	10665
75°	1027	8860	9775
80°	1148	7695	8510
85°	1083	6517	7279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 55°

Luminance: 11711 cd/sqm

TEST NUMBER: P1055078

CATALOG NUMBER: SQ4R-FB-075D-830-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	1.7
10°-20°	175.5	7.4
20°-30°	306.9	13.0
30°-40°	395.1	16.7
40°-50°	441.3	18.6
50°-60°	422.7	17.9
60°-70°	335.0	14.1
70°-80°	197.0	8.3
80°-90°	54.7	2.3
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°	522.0	22.0
0°-40°	917.1	38.7
0°-60°	1781.0	75.2
0°-90°	2367.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	298	320	360	407	422	28
15°	223	412	695	842	869	62
25°	143	468	828	864	865	66
35°	96	447	779	824	856	60
45°	66	356	689	789	825	51
55°	47	226	585	679	698	43
65°	37	120	434	488	495	37
75°	28	74	238	262	263	29
85°	10	23	59	65	66	11
90°	0	0	0	0	0	

TEST NUMBER: P1055078

CATALOG NUMBER: SQ4R-FB-075D-830-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1	306.1
2.5°	306.1	306.1	308.0	309.0	311.0	312.0	313.9	315.9	321.8	322.8	324.8
5°	298.2	302.1	314.9	319.8	333.6	352.3	360.2	373.0	399.5	407.4	412.3
7.5°	286.4	295.2	326.7	334.6	369.0	418.2	438.9	466.5	508.8	529.5	546.2
10°	267.7	286.4	342.5	361.2	417.3	492.1	530.4	568.8	632.8	661.3	672.1
12.5°	247.0	277.5	359.2	384.8	465.5	574.7	621.0	663.3	736.1	774.5	780.4
15°	223.4	264.7	374.9	412.3	516.7	643.6	694.8	746.9	814.8	842.4	849.3
17.5°	202.7	254.9	389.7	429.1	556.0	705.6	757.8	801.1	856.2	874.9	879.8
20°	177.1	239.1	399.5	450.7	597.4	750.9	801.1	834.5	871.9	883.7	885.7
22.5°	158.4	222.4	405.5	458.6	624.9	778.4	820.8	847.3	872.9	876.8	877.8
25°	142.7	203.7	404.5	467.5	648.5	795.2	827.6	847.3	862.1	864.1	864.1
27.5°	127.9	183.0	400.5	469.4	666.2	799.1	824.7	838.5	845.4	849.3	849.3
30°	115.1	163.4	390.7	465.5	674.1	795.2	815.8	822.7	829.6	835.5	838.5
32.5°	105.3	144.7	375.9	457.6	675.1	785.3	800.1	804.0	813.9	827.6	832.6
35°	96.4	126.0	359.2	446.8	669.2	769.6	779.4	783.4	803.0	823.7	830.6
37.5°	87.6	112.2	337.6	428.1	660.3	750.9	757.8	764.7	795.2	819.8	827.6
40°	78.7	100.4	312.0	407.4	646.6	728.2	734.1	745.0	785.3	813.9	821.7
42.5°	71.8	90.5	284.4	385.8	628.8	702.7	711.5	727.3	773.5	804.0	812.9
45°	65.9	80.7	254.9	356.2	606.2	676.1	688.9	710.5	759.7	789.3	797.1
47.5°	60.0	73.8	224.4	325.7	581.6	649.5	666.2	690.8	741.0	769.6	776.5
50°	55.1	66.9	193.9	293.3	555.0	621.0	640.7	666.2	717.4	744.0	752.8
52.5°	51.2	61.0	165.3	260.8	524.5	591.5	614.1	640.7	688.9	714.5	720.4
55°	47.2	56.1	140.7	226.3	493.0	560.0	584.6	610.2	657.4	679.0	683.0
57.5°	45.3	52.2	120.1	193.9	459.6	524.5	552.1	575.7	620.0	636.7	640.7
60°	42.3	49.2	104.3	166.3	423.2	491.1	514.7	538.3	575.7	589.5	592.4
62.5°	39.4	47.2	92.5	139.7	385.8	451.7	475.3	497.0	528.5	538.3	542.2
65°	37.4	45.3	83.6	120.1	347.4	410.4	434.0	452.7	478.3	488.1	490.1
67.5°	35.4	43.3	76.8	103.3	309.0	369.0	386.8	404.5	424.2	434.0	435.0
70°	32.5	41.3	70.9	91.5	269.6	321.8	336.6	355.3	371.0	375.9	378.9
72.5°	30.5	38.4	66.9	82.7	229.3	276.5	290.3	301.1	314.9	319.8	319.8
75°	27.6	34.4	63.0	73.8	188.0	226.3	238.2	249.0	259.8	261.8	258.8
77.5°	24.6	30.5	54.1	62.0	146.6	179.1	188.9	194.9	203.7	205.7	206.7
80°	20.7	26.6	42.3	48.2	106.3	131.9	138.8	143.7	151.6	151.6	153.5
82.5°	15.7	20.7	30.5	34.4	71.8	90.5	96.4	99.4	104.3	104.3	104.3
85°	9.8	12.8	19.7	22.6	43.3	55.1	59.0	60.0	64.0	65.0	65.0
87.5°	4.9	6.9	12.8	13.8	22.6	28.5	28.5	30.5	30.5	29.5	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1055078

CATALOG NUMBER: SQ4R-FB-075D-830-1-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	306.1	306.1
2.5°	326.7	324.8
5°	420.2	422.2
7.5°	565.9	564.9
10°	703.6	712.5
12.5°	804.0	806.0
15°	865.0	869.0
17.5°	888.7	889.6
20°	889.6	887.7
22.5°	878.8	876.8
25°	866.0	865.0
27.5°	854.2	855.2
30°	849.3	852.2
32.5°	849.3	854.2
35°	851.3	856.2
37.5°	850.3	856.2
40°	846.3	853.2
42.5°	835.5	840.4
45°	818.8	824.7
47.5°	797.1	801.1
50°	769.6	773.5
52.5°	735.1	736.1
55°	693.8	697.7
57.5°	649.5	650.5
60°	600.3	603.3
62.5°	548.2	548.2
65°	493.0	495.0
67.5°	436.0	440.9
70°	377.9	378.9
72.5°	320.8	320.8
75°	261.8	262.8
77.5°	205.7	205.7
80°	152.5	153.5
82.5°	105.3	107.3
85°	65.9	65.9
87.5°	30.5	27.6
90°	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	9.96	11.68	10.32	11.99	12.30	22.28	24.00	22.65	24.31	24.63
	3H	10.89	12.45	11.27	12.78	13.14	24.19	25.75	24.57	26.08	26.44
	4H	11.37	12.84	11.76	13.19	13.56	24.89	26.36	25.28	26.70	27.08
	6H	11.86	13.23	12.27	13.59	13.98	25.37	26.74	25.78	27.10	27.49
	8H	12.06	13.37	12.48	13.76	14.15	25.52	26.83	25.95	27.22	27.62
	12H	12.20	13.45	12.62	13.83	14.26	25.63	26.88	26.06	27.27	27.69
4H	2H	17.29	18.76	17.69	19.11	19.48	22.79	24.27	23.19	24.61	24.99
	3H	19.23	20.47	19.64	20.87	21.26	24.98	26.22	25.38	26.61	27.01
	4H	19.42	20.55	19.85	20.96	21.39	25.82	26.94	26.25	27.35	27.79
	6H	19.54	20.53	19.99	20.97	21.42	26.44	27.43	26.89	27.87	28.32
	8H	19.57	20.49	20.03	20.93	21.40	26.64	27.57	27.10	28.01	28.47
	12H	19.59	20.43	20.07	20.90	21.37	26.79	27.63	27.27	28.10	28.57
8H	4H	21.07	22.00	21.53	22.44	22.90	26.06	26.98	26.51	27.42	27.88
	6H	21.52	22.29	22.01	22.78	23.25	26.81	27.58	27.30	28.07	28.54
	8H	21.61	22.30	22.11	22.80	23.29	27.08	27.78	27.59	28.28	28.76
	12H	21.65	22.26	22.15	22.75	23.31	27.31	27.92	27.81	28.41	28.97
12H	4H	21.29	22.12	21.76	22.59	23.06	26.06	26.90	26.54	27.37	27.84
	6H	21.86	22.56	22.37	23.06	23.55	26.83	27.53	27.34	28.03	28.52
	8H	22.07	22.69	22.58	23.18	23.73	27.17	27.78	27.67	28.27	28.83