

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: P938002

Luminaire Tested: SQ4-FB-125U-075D-B40-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938002
REPORT IS A COMBINATION OF REPORTS P933598 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-075D-B40-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

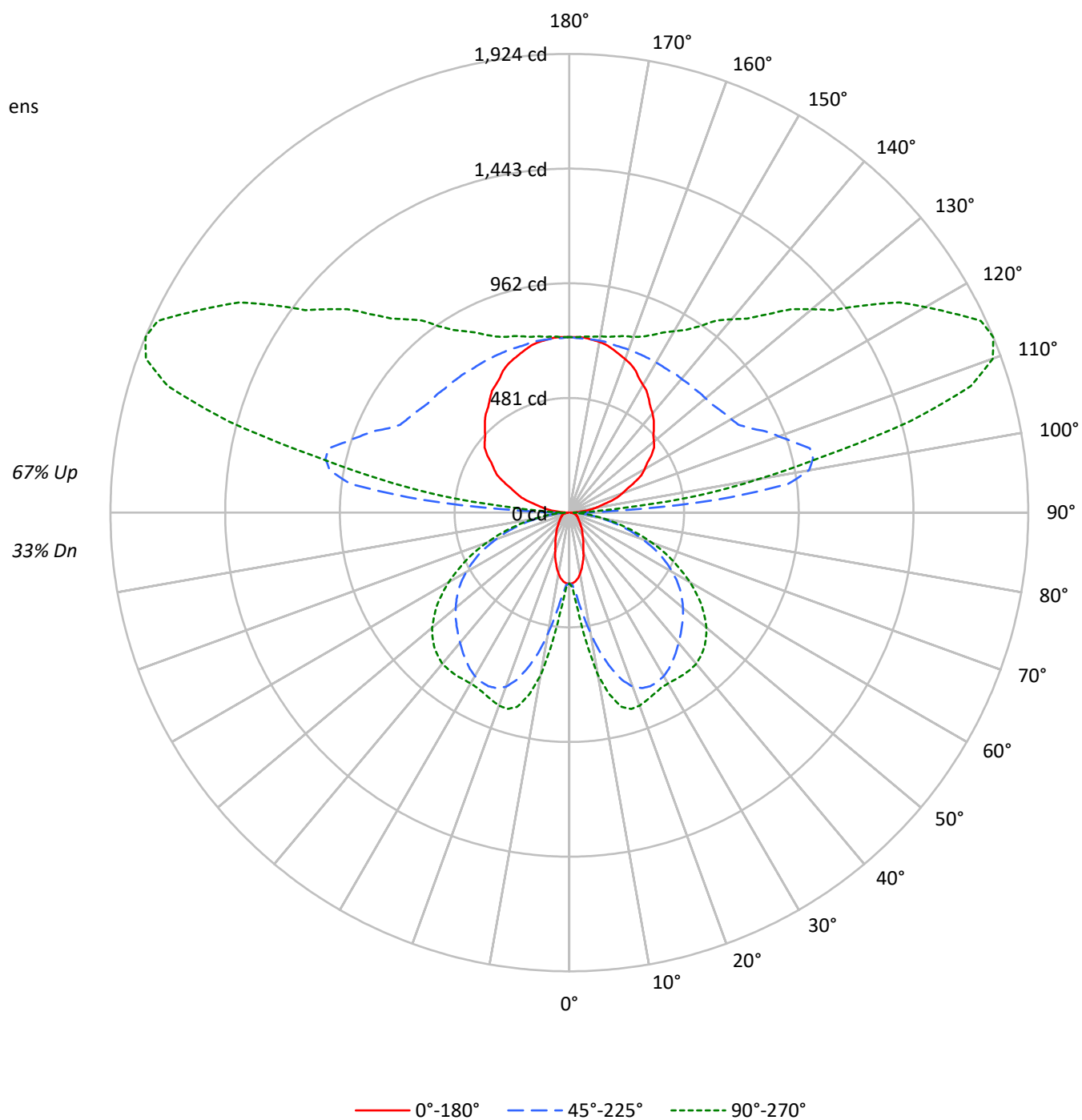
Lumens per Lamp: N/A
Luminaire Lumens: 7076.5 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.6
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	33	33	27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	27	27	22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	23	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	16	16	13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	14	14	11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	12	12	10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	11	11	8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	10	10	7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2756	2756	2756
5°	2690	3183	3704
10°	2437	4636	6141
15°	2069	6053	7416
20°	1682	7009	7558
25°	1402	7330	7404
30°	1180	7370	7390
35°	1042	7242	7581
40°	906	7077	7779
45°	819	6954	7809
50°	750	6842	7680
55°	715	6682	7340
60°	731	6380	6802
65°	756	5925	6064
70°	800	5156	5123
75°	876	4193	3998
80°	941	2899	2694
85°	787	1529	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7809 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.5
10°-20°	170.3	2.4
20°-30°	297.8	4.2
30°-40°	383.4	5.4
40°-50°	428.2	6.1
50°-60°	410.2	5.8
60°-70°	325.1	4.6
70°-80°	191.1	2.7
80°-90°	55.9	0.8
90°-100°	359.1	5.1
100°-110°	944.2	13.3
110°-120°	979.0	13.8
120°-130°	785.3	11.1
130°-140°	616.2	8.7
140°-150°	472.9	6.7
150°-160°	340.6	4.8
160°-170°	208.4	2.9
170°-180°	70.4	1.0
0°-30°	506.5	7.2
0°-40°	889.9	12.6
0°-60°	1728.3	24.4
0°-90°	2300.4	32.5
90°-120°	2282.3	32.3
90°-150°	4156.6	58.7
90°-180°	4776.0	67.5
0°-180°	7076.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	289	310	350	395	410	27
15°	217	400	674	818	843	60
25°	138	454	803	838	839	64
35°	94	434	756	799	831	58
45°	64	346	668	766	800	50
55°	46	220	567	659	677	42
65°	36	116	421	474	480	36
75°	27	72	231	254	255	28
85°	10	22	57	63	64	10
90°	5	14	38	19	19	5
95°	48	186	619	319	217	53
105°	170	258	1044	1585	1478	180
115°	302	367	836	1668	1904	298
125°	420	471	760	1285	1516	373
135°	501	551	737	1037	1176	388
145°	581	618	727	885	954	364
155°	657	675	727	799	822	302
165°	708	718	727	756	765	200
175°	737	737	732	742	742	70
180°	737	737	737	737	737	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	297.0	297.0	297.0	297.0	297.0	297.0	297.0	297.0	297.0	297.0	297.0
2.5°	297.0	297.0	298.9	299.9	301.8	302.7	304.6	306.6	312.3	313.2	315.2
5°	289.4	293.2	305.6	310.4	323.7	341.9	349.5	361.9	387.7	395.4	400.1
7.5°	277.9	286.5	317.1	324.7	358.1	405.9	425.9	452.7	493.7	513.8	530.0
10°	259.8	277.9	332.3	350.5	404.9	477.5	514.7	552.0	614.1	641.8	652.3
12.5°	239.7	269.3	348.6	373.4	451.7	557.7	602.6	643.7	714.3	751.6	757.3
15°	216.8	256.9	363.9	400.1	501.4	624.6	674.2	724.8	790.7	817.5	824.2
17.5°	196.7	247.3	378.2	416.4	539.6	684.7	735.4	777.4	830.8	849.0	853.8
20°	171.9	232.1	387.7	437.4	579.7	728.7	777.4	809.8	846.1	857.6	859.5
22.5°	153.8	215.8	393.5	445.0	606.4	755.4	796.5	822.3	847.1	850.9	851.9
25°	138.5	197.7	392.5	453.6	629.3	771.6	803.2	822.3	836.6	838.5	838.5
27.5°	124.2	177.6	388.7	455.5	646.5	775.5	800.3	813.7	820.3	824.2	824.2
30°	111.7	158.5	379.1	451.7	654.2	771.6	791.7	798.4	805.1	810.8	813.7
32.5°	102.2	140.4	364.8	444.1	655.1	762.1	776.4	780.2	789.8	803.2	807.9
35°	93.6	122.2	348.6	433.6	649.4	746.8	756.4	760.2	779.3	799.3	806.0
37.5°	85.0	108.9	327.6	415.4	640.8	728.7	735.4	742.0	771.6	795.5	803.2
40°	76.4	97.4	302.7	395.4	627.4	706.7	712.4	722.9	762.1	789.8	797.4
42.5°	69.7	87.9	276.0	374.4	610.2	681.9	690.5	705.7	750.6	780.2	788.8
45°	64.0	78.3	247.3	345.7	588.3	656.1	668.5	689.5	737.3	765.9	773.6
47.5°	58.3	71.6	217.7	316.1	564.4	630.3	646.5	670.4	719.1	746.8	753.5
50°	53.5	64.9	188.1	284.6	538.6	602.6	621.7	646.5	696.2	722.0	730.6
52.5°	49.7	59.2	160.4	253.1	509.0	574.0	595.9	621.7	668.5	693.3	699.1
55°	45.8	54.4	136.6	219.6	478.5	543.4	567.3	592.1	637.9	658.9	662.8
57.5°	43.9	50.6	116.5	188.1	446.0	509.0	535.8	558.7	601.6	617.9	621.7
60°	41.1	47.8	101.2	161.4	410.6	476.5	499.5	522.4	558.7	572.0	574.9
62.5°	38.2	45.8	89.8	135.6	374.4	438.3	461.3	482.3	512.8	522.4	526.2
65°	36.3	43.9	81.2	116.5	337.1	398.2	421.2	439.3	464.1	473.7	475.6
67.5°	34.4	42.0	74.5	100.3	299.9	358.1	375.3	392.5	411.6	421.2	422.1
70°	31.5	40.1	68.8	88.8	261.7	312.3	326.6	344.8	360.0	364.8	367.7
72.5°	29.6	37.2	64.9	80.2	222.5	268.4	281.7	292.2	305.6	310.4	310.4
75°	26.7	33.4	61.1	71.6	182.4	219.6	231.1	241.6	252.1	254.0	251.2
77.5°	23.9	29.6	52.5	60.2	142.3	173.8	183.4	189.1	197.7	199.6	200.5
80°	20.1	25.8	41.1	46.8	103.1	128.0	134.7	139.4	147.1	147.1	149.0
82.5°	15.3	20.1	29.6	33.4	69.7	87.9	93.6	96.5	101.2	101.2	101.2
85°	9.5	12.4	19.1	22.0	42.0	53.5	57.3	58.3	62.1	63.0	63.0
87.5°	4.8	6.7	12.4	13.4	22.0	27.7	27.7	29.6	29.6	28.6	27.7
90°	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0	18.8	18.8
92.5°	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2	94.0	90.2
95°	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9	319.0	307.6
97.5°	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3	736.2	714.7
100°	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3	1033.9	1008.2
102.5°	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7	1288.1	1266.1
105°	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4	1584.7	1572.9
107.5°	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5	1739.0	1741.8
110°	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4	1778.6	1790.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6	1753.4	1772.3
115°	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6	1667.8	1694.0
117.5°	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4	1549.6	1578.6
120°	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4	1470.0	1498.3
122.5°	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6	1390.4	1418.3
125°	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2	1285.0	1310.7
127.5°	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4	1200.5	1222.2
130°	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4	1147.1	1167.1
132.5°	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0	1101.7	1119.5
135°	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2	1037.4	1052.9
137.5°	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1	989.9	1002.5
140°	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7	951.8	963.7
142.5°	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8	925.1	935.2
145°	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5	885.1	892.8
147.5°	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1	851.5	857.9
150°	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2	832.2	837.3
152.5°	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0	816.8	820.7
155°	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8	798.6	801.1
157.5°	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3	782.7	784.5
160°	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9	774.8	775.8
162.5°	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1	767.4	768.4
165°	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4	756.0	757.0
167.5°	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8	751.1	751.6
170°	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8	751.1	751.1
172.5°	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1	747.1	746.7
175°	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5	741.7	741.7
177.5°	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2	740.7	740.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	297.0	297.0
2.5°	317.1	315.2
5°	407.8	409.7
7.5°	549.1	548.2
10°	682.8	691.4
12.5°	780.2	782.1
15°	839.4	843.3
17.5°	862.4	863.3
20°	863.3	861.4
22.5°	852.8	850.9
25°	840.4	839.4
27.5°	828.9	829.9
30°	824.2	827.0
32.5°	824.2	828.9
35°	826.1	830.8
37.5°	825.1	830.8
40°	821.3	828.0
42.5°	810.8	815.6
45°	794.6	800.3
47.5°	773.6	777.4
50°	746.8	750.6
52.5°	713.4	714.3
55°	673.3	677.1
57.5°	630.3	631.3
60°	582.6	585.4
62.5°	531.9	531.9
65°	478.5	480.4
67.5°	423.1	427.8
70°	366.7	367.7
72.5°	311.3	311.3
75°	254.0	255.0
77.5°	199.6	199.6
80°	148.0	149.0
82.5°	102.2	104.1
85°	64.0	64.0
87.5°	29.6	26.7
90°	18.8	18.8
92.5°	75.3	60.4
95°	262.3	217.1
97.5°	628.6	542.4
100°	905.6	803.0
102.5°	1178.2	1090.3
105°	1525.7	1478.4
107.5°	1753.3	1764.7
110°	1840.1	1889.3

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1847.8	1923.5
115°	1798.8	1903.7
117.5°	1694.9	1811.2
120°	1611.2	1724.2
122.5°	1529.6	1641.1
125°	1413.3	1516.0
127.5°	1308.7	1395.4
130°	1247.1	1327.2
132.5°	1191.2	1262.8
135°	1114.6	1176.3
137.5°	1053.1	1103.6
140°	1010.9	1058.1
142.5°	975.9	1016.6
145°	923.6	954.3
147.5°	883.3	908.8
150°	858.1	878.7
152.5°	836.3	852.0
155°	811.5	821.8
157.5°	791.8	799.0
160°	780.0	784.2
162.5°	772.4	776.3
165°	761.2	765.4
167.5°	753.3	755.0
170°	751.1	751.1
172.5°	745.2	743.7
175°	741.7	741.7
177.5°	738.5	736.8
180°	736.8	736.8

(END OF REPORT)